This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at `http://books.google.com/`

WEALE'S RUDIMENTARY SCIENTIFIC AND EDUCATIONAL SERIES.

The following are the Works already published in

PHYSICAL SCIENCE, &c.

(*The Volumes are bound in limp cloth, except where otherwise stated.*)

CHEMISTRY, for the Use of Beginners. By Professor George Fownes, F.R.S. With an Appendix, on the Application of Chemistry to Agriculture. 1s.

NATURAL PHILOSOPHY, for the Use of Beginners. By C. Tomlinson, F.R.S. Woodcuts. 1s. 6d.

MINERALOGY, Rudiments of. By A. Ramsay, Jun. Woodcuts and Steel Plates. 3s.; cloth boards, 3s. 6d.

MECHANICS, Rudimentary Treatise on; being a concise Exposition of the General Principles of Mechanical Science, and their Applications. By C. Tomlinson, F.R.S. 1s. 6d.

ELECTRICITY: showing the General Principles of Electrical Science, and the purposes to which it has been applied. By Sir W. Snow Harris, F.R.S., &c. With considerable Additions by R. Sabine, C.E., F.S.A. Woodcuts. 1s. 6d.

GALVANISM, Rudimentary Treatise on, and the General Principles of Animal and Voltaic Electricity. By Sir W. Snow Harris. New Edition, revised, with considerable Additions, by Robert Sabine, C.E., F.S.A. Woodcuts. 1s. 6d.

MAGNETISM: being a concise Exposition of the General Principles of Magnetical Science, and the Purposes to which it has been applied. By Sir W. Snow Harris. New Edition, revised by H. M. Noad, Ph.D. 3s. 6d.

THE ELECTRIC TELEGRAPH: its History and Progress. By R. Sabine, C.E., F.S.A., &c. Woodcuts. 3s.

MANUAL OF THE MOLLUSCA: a Treatise on Recent and Fossil Shells. By Dr. S. P. Woodward, A.L.S. With Appendix by Ralph Tate, A.L.S., F.G.S. With numerous Plates and 300 Woodcuts. 6s. 6d.; cloth boards, 7s. 6d.

ASTRONOMY. By the late Rev. R. Main, M.A., F.R.S., &c. Third Edition, Revised and Corrected to the Present Time. By W. Thynne Lynn, B.A., F.R.A.S. 2s.

TELEGRAPH, Handbook of the; a Manual of Telegraphy, Telegraph Clerks' Remembrancer, and Guide to Candidates for Employment in the Telegraph Service. By R. Bond. [illegible] nlarged. 3s.

COAL AND COAL MINING: a Rudimentary Treatise on. By WARINGTON W. SMYTH, M.A., F.R.S., &c., Chief Inspector of the Mines of the Crown and of the Duchy of Cornwall. Fifth Edition, revised and enlarged. Woodcuts. 3s.6d.; cl. bds. 4s.

PHYSICAL GEOLOGY, partly based on Major-General PORTLOCK'S "Rudiments of Geology." By RALPH TATE, A.L.S. 2s.

HISTORICAL GEOLOGY, partly based on Major-General PORTLOCK'S "Rudiments." By RALPH TATE, A.L.S. 2s.6d.

*** *The above two works bound together, limp, 4s. 6d., cloth boards, 5s.*

ANIMAL PHYSICS, Handbook of. By Dr. LARDNER, D.C.L. With 520 Illustrations. In One Vol. 7s. 6d., cl. bds.

*** *Sold also in Two Parts, as follows:—*
Chapters I.—VII. 4s. Chapters VIII.—XVIII. 3s.

ELECTRO-METALLURGY, Practically Treated. By ALEXANDER WATT, F.R.S.S.A. Eighth Edition, revised, with Additional Matter and Illustrations, including the most Recent Processes. Woodcuts. 3s.; cloth boards, 3s. 6d.

METALLURGY OF IRON, a Treatise on the. Containing History of Iron Manufacture, Methods of Assay, and Analyses of Iron Ores, Processes of Manufacture of Iron and Steel, &c. By H. BAUERMAN, F.G.S. Fifth Edition, enlarged, with numerous Illustrations. 5s.; cloth boards, 5s. 6d.

A TREATISE ON SLATE AND SLATE QUARRYING, Scientific, Practical, and Commercial. By D. C. DAVIES, F.G.S., &c. With Illustrations and Plates. 3s.; cloth bds. 3s.6d.

MISCELLANEOUS VOLUMES.

A DICTIONARY OF TERMS used in ARCHITECTURE, BUILDING, ENGINEERING, MINING, METALLURGY, ARCHÆOLOGY, the FINE ARTS, &c. By J. WEALE. Fifth Edition. By ROBERT HUNT, F.R.S. 5s. limp; 6s. boards.

THE LAW OF CONTRACTS FOR WORKS AND SERVICES. By DAVID GIBBONS. Third Edition, revised. 3s.

MANUAL OF DOMESTIC MEDICINE. By R. GOODING, B.A., M.D. Intended as a Family Guide in all Cases of Accident and Emergency. 2s.; cloth boards, 2s. 6d.

MANAGEMENT OF HEALTH. A Manual of Home and Personal Hygiene. By the Rev. JAMES BAIRD, B.A. 1s.

THE HOUSE MANAGER: being a Guide to Housekeeping: Practical Cookery, Household Work, Dairy Management, the Table and Dessert, Cellarage of Wines, the Boudoir and Dressing-room, Stable Economy, Gardening Operations, &c. By AN OLD HOUSEKEEPER. 3s. 6d.; cloth boards, 4s.

THE HOUSE BOOK. Comprising:—I. THE HOUSE MANAGER. By AN OLD HOUSEKEEPER. II. DOMESTIC MEDICINE. By RALPH GOODING, M.D. III. MANAGEMENT OF HEALTH. By JAMES BAIRD. In One Vol., strongly half-bound. 6s.

Digitized by Google

A COMPLETE

READY RECKONER

FOR THE

ADMEASUREMENT OF LAND

By ABRAHAM ARMAN

SCHOOLMASTER OF THURLEIGH, BEDS

TO WHICH IS ADDED

A TABLE

SHOWING THE PRICE OF WORK FROM 2*s*. 6*d*. TO £1 PER ACRE

Second Edition, Revised, Corrected, and Extended

By C. NORRIS, Surveyor, Valuer, &c.

LONDON

CROSBY LOCKWOOD AND CO.

7, STATIONERS' HALL COURT, LUDGATE HILL

1884

1807, e. 1.

Digitized by Google

LONDON:
PRINTED BY J. S. VIRTUE AND CO., LIMITED,
CITY ROAD.

13 FEB

Digitized by Google

PREFACE TO THE SECOND EDITION.

After many years' practical experience in the Admeasurement of Land, both in large and small pieces (and in most cases having had to render an exact statement of the area measured, often before leaving the field), I have seen the necessity of a ready reckoner for the computation of land when so measured. To meet this want I have compiled this little work, which I have fairly and strictly tested, having had it in use now upwards of twelve months, and I find it answers the purposes for which it is intended, quite equal to my most sanguine expectations. I can strongly recommend it to the notice of the agriculturist and others.

Many persons (masters as well as men) are able to measure their own work, and yet not perhaps able to compute it accurately after such measurement. This little book will be found to suit their purpose, at the same time saving them much trouble.

Again, either master or man, if employing a person to measure their land or harvest work for them, after having the length and breadth of the ground given them, would, by the use of this book, see that the work had been correctly calculated.

To the Surveyor or others professing to measure land it will be found of great service, as the Tables extend from one link to ten chains in breadth, and from twenty-five links to twenty chains and ninety-five links in length, and the calculations are made in perches, roods, and acres. Thus, if the side of a parallelogram was found to be 20·15 chains in length, and 7·00 chains in breadth, look in the Table headed "twenty chains and under twenty chains and a half," and then in the column

Digitized by Google

"2015" opposite "700" will be found 14A. 0R. 16P., the area or contents sought.

To the professional Surveyor and practical man I need not offer any further explanation; but for the aid of those not in the habit of measuring ground, I will give a few examples.

FIG. 1. A triangular piece of ground. Find by the cross-staff where a perpendicular from the apex intersects the base. Measure the base line (or side), say 8·60 links, and the perpendicular, say 5·60 links, of which take the half, 2·80 links, as the mean width. Then look in the Tables in the column 860 (p. 30), and opposite 280 in the column of widths will be found the area, 2A. 1R. 25P.

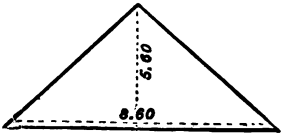


Fig. 1.

FIG. 2. If the perpendicular to the base is one of the sides, and measures say 2·54 links, of which the half is 1·27, the base being 6·35 links. Then under column 635 (p. 21), opposite 120 in the column of widths, find 0A. 3R. 1P., and opposite 7 is 7P.; take the sum of the two for the total area, 0A. 3R. 8P.

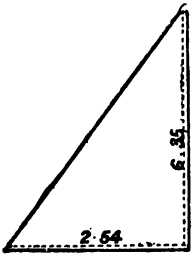


Fig. 2.

FIG. 3. A trapezium: a four-sided field, with two parallel but unequal sides, and a third side perpendicular to both, the length being 12·60 links, the longer of the two parallel sides measuring 2·00 links, and the shorter 1·40 links; take the half of their sum, 1·70 links, then under column 1260 (p. 46), opposite 1·70 in the column of widths, is given the area or contents of the field, 2A. 0R. 22P.

FIG. 4. An irregular four-sided field. Divide into two triangles by measuring a diagonal from one corner to the opposite one, say 6·20 links. Find with the cross-staff where the perpendiculars from the two other corners fall on the diagonal or base, and measure those perpendiculars, as 2·90 links and 1·60 links respectively. Take half their sum, which is 2·25 links, then in column 620 (p. 20),

Digitized by Google

opposite 220 in the column of widths, is 1A. 1R. 18P.

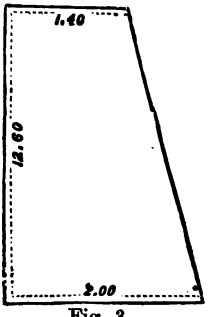


Fig. 3.

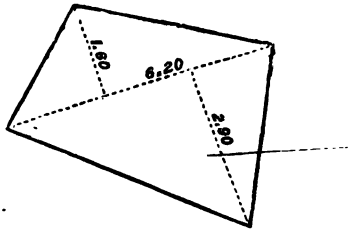


Fig. 4.

Now to find the addition required for the extra 5 links, which does not appear in the column of widths: opposite 4 links will be found 3P., and opposite 6 links 5P.; take half their sum, which will be 4P., and add that to the first result, making the whole area 1A. 1R. 22P. Or by another method: double the width 2·25 is 4·50 links; opposite 400 is 2A. 1R. 36P., and opposite 50 is 0A. 1R. 9P.; add these together, making 2A. 3R. 5P., and take the half thereof, namely 1A. 1R. 22P., the area as before. The same result would also be obtained by doubling 5 links, and opposite 10 links width is 9P., the half of which, 4P., is to be added to 1A. 1R. 18P. (opposite 220), giving as before 1A. 1R. 22P.

FIG. 5. An irregular field of more than four sides. Suppose 5 sides: from any one of the corners measure the diagonals to the two opposite corners; one of these becomes the diagonal of a four-sided field, which must be measured as in the last (Fig. 4), suppose the same dimensions and area; then the other diagonal is the base of a separate triangle, say 7·00 links, to be measured as in Fig. 1, by taking one-half the perpendicular, 1·20; then in column 700

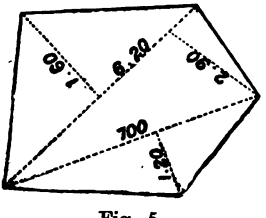


Fig. 5.

Digitized by Google

opposite width 60 is 0A. 1R. 27P., to be added to 1A. 1R. 22P., making 1A. 3R. 9P., the contents of the whole field.

NOTE.—If there were six sides, the field may be divided by one diagonal into two irregular four-sided figures, to be measured as Fig. 4, their sum giving the area of the field. Or, with any number of sides more than four, the field may be divided into triangles, each of which being measured as in Fig. 1, the sum of their areas gives the area of the field.

FIG. 6. An irregularly shaped four-sided field, the opposite sides being nearly but not quite straight and parallel. Suppose the two perpendiculars at the ends to measure 3·20 and 3·40 links, the length between them

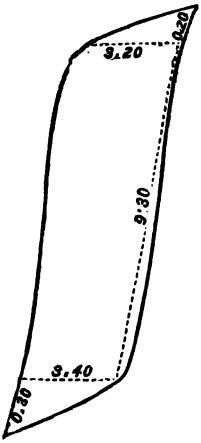


Fig. 6.

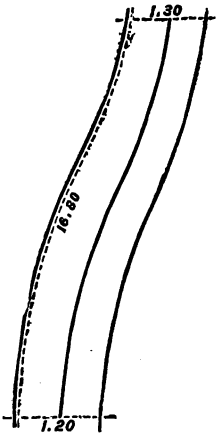


Fig. 7.

being 9·30 links, with projecting corners 0·20 and 0·30 links wide at opposite ends. Then add the two ends 3·20 and 3·40 together and take half their sum, 3·30, opposite which in column 930 (p. 33) is, for 300, 2A. 3R. 6P., and for 30, 0A. 1R. 4P., making together 3A. 0R. 10P. Then for the corner at one end, 320 (p. 8), opposite the half-width 0·10, is 5P.; and for the corner at the other end,

Digitized by Google

340 (p. 9), for the half width 0·15 (not in the table), take half the area opposite the whole width 30, or the half of 16, viz. 8P. Then the sum of the two ends 5P. and 8P., or 13P., added to the area of the middle, 3A. 0R. 10P., gives 3A. 0R. 23P., the contents of the field.

FIG. 7. If the field should be ploughed in lands curving regularly, as shown in Fig. 7, the area of one of these lands will be obtained by taking the length along the curve of the furrow, and for the mean width half the sum of the two widths at the ends: thus—length 16·80 links, end-widths 1·20 and 1·30 links, half the sum being 1·25 links. Then in column 1680 (p. 63) opposite 120 is 2A. 0R. 2P., and opposite 5 is 0A. 0R. 13P., giving together 2A. 0R. 15P. as the area of one land; from which the area of any number of similar and equal lands can be computed. This form is very often found in unenclosed or common-land allotments.

FIG. 8. Irregular figure; one long straight side, perpendicular to two straight ends, with an irregular boundary fence. Find and measure the perpendiculars from the angles of the irregular boundary on the base line, and their distances apart; take the mean between each pair of widths or perpendiculars (or half their sum) as a width and the distance between them as the length, obtaining the corresponding area, and add all these areas together for the contents. Thus: total length of straight side or base 4·65 links; the two ends being respectively 2·45 and 0·90 links; with offsets or perpendiculars of 2·50, 2·30, and 2·35 links, at distances respectively of 1·15, 1·20, 1·00, and 1·30 links; then the half-sums or widths for those lengths are 2·47, 2·40, 2·32, and 1·63. In taking these half-sums it is to be noted that the half-links are alternately omitted and counted as a whole link. Then (pp. 2 and 3) under 100, opposite 232 (*i.e.* 100, 100, 30, and 2), we obtain a total of say 37P.; under 115, for 247, we get 1R. 4P.; under 120, for 240, 1R. 9P.; and under 130, for 163, 34P.; the sum total being 0A. 3R. 4P.

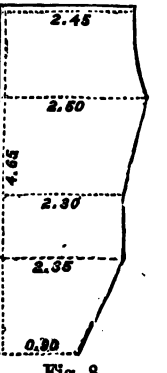


Fig. 8.

Digitized by Google

FIG. 9. Or again: measure the largest regular four-sided area that can be obtained in the field, and add thereto the areas of the smaller outlying pieces, as triangles or trapeziums. The total length of the longest side or base being 7·80 links, let that of the large trapezium be 5·80, with ends measuring 3·25 and 3·15 links respectively. Then the mean width is 3·20, opposite which, under 580 (p. 19), we find 1A. 2R. 38P. and 0A. 0R. 18P. (for 300 and 20 respectively), making together 1A. 3R. 16P.; to which are to be added successively the area of the end trapezium, 200 by 252, or 0A. 2R. 1P.; and for the two triangles, 290 by 30, and 270 by 40, 13P. and 17P. respectively; the sum total amounting to 2A. 2R. 7P., the area of the whole field.

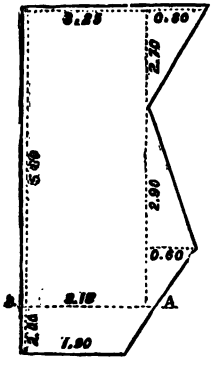


Fig. 9.

FIG. 10. An irregular figure, with one straight side, two straight parallel ends, and an irregular curved boundary on the remaining side; or any long strip with two irregular boundaries. In the first case, divide the base into any even number of equal parts, and measure both ends and all the intervening ordinates; multiply each of the even offsets (2nd, 4th, 6th, &c.) by 4, and each of the odd offsets (3rd, 5th, &c.) by 2, and to the sum of all the products add the two ends (or first and last); divide the sum by 3, and multiply the quotient by the interval or distance apart; the product is the total area. Thus, suppose the equal divisions, intervals, or distances between the offsets to be 100 links, and the offsets re-

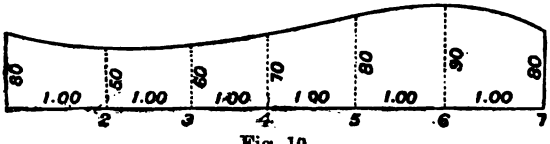


Fig. 10.

Digitized by Google

spectively as shown in the figures. Then proceed as follows:—

No.		Offsets. links.		Multi-plier.		Product. links.
1	. . . . .	80	×	1	=	80
2	. . . . .	50	×	4	=	200
3	. . . . .	60	×	2	=	120
4	. . . . .	70	×	4	=	280
5	. . . . .	80	×	2	=	160
6	. . . . .	90	×	4	=	360
7	. . . . .	80	×	1	=	80
						1,280

And 1,280 links × 100 links divided by 3 is equal to—

```
42,667 square links
     4
 -------
1·70668
     40
 -------
28·2772
```

which must be reduced to acres, roods, and perches, by pointing off five decimal places, and multiplying successively by 4 and by 40, giving 0A. 1R. 28P. as the area. In the second case, take the measures across the strip at equal distances apart (the shorter the space or interval the more accurate will be the result); take half the sum of the first and last, and add thereto the sum of all the intermediate measures, multiplying the product by the common interval or distance apart. Thus, the distance

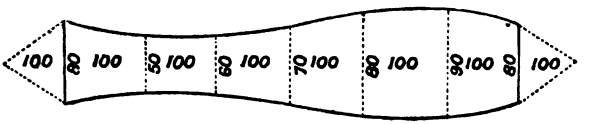


Fig. 11.

apart being 100 links, and the other measures as in the figure, half the sum of the first and last is 80, and the sum of the intermediates is 350, giving a total of 430 links, which, multiplied by 100 links, gives 43,000 square links, or 0A. 1R. 29P. One or both ends may terminate in a point or corner, where of course the measure

Digitized by Google

would be 0, but the process would be the same. In the former case the half-sum of the first and last would become simply half the first or last measure, and in the latter case the half-sum would be nothing. Thus with one end only terminating at 0 the sum of the measures would become—

$$40 + 430 = 470 \times 100 = 47{,}000 \text{ sq. links, or } 1\text{R. } 35\text{P.};$$

and with 0 at each end the sum would become—

$$0 + 510 = 510 \times 100 = 51{,}000 \text{ sq. links, or } 2\text{R. } 2\text{P.}$$

These methods of computing the areas, it will be noticed, are independent of the Tables. To use the Tables it would be necessary to treat each of the areas between the measures as a trapezium, the interval or distance apart being the length, and the half-sum of the two transverse measures (or ends) being the width, as in Fig. 10.

In Fig. 11 the first and last areas might obviously be triangles.

Thus (Fig. 10) the area of the first space would be 100 × 65, or 10P.; that of the second, 100 × 55, or 8P.; of the third, 100 × 65, 10P.; the fourth, 100 × 75, 12P.; the fifth and sixth, 100 × 85, each 13P., giving a total of 1R. 26P. Or again, in Fig. 11, both ends terminating in an angle or point, the area of the first space would be 100 × 40, or 6P.; the second and up to the seventh, as above, total 1R. 26P.; and that of the last, 6P., like the first; making altogether 1R. 38P. The trifling difference results from the neglect of fractions in the tables.

By following these instructions, and a little practice, any person, with a very trifling knowledge of figures, may be enabled to measure any ordinary shaped piece of ground; for the only difficulty of measuring a field or piece of land is to know what figure or shape it is, which requires a quick and ready eye, without which no person can measure a piece of ground either readily or accurately.

It remains only to explain the mode in which the tabular areas have been computed, and the limits of any

Digitized by Google

error. To have given fractional parts of a pole or perch would have extended the Tables without any compensating advantage, and consequently (as before stated) fractions have been neglected, so that, as a rule, the true result is a little in excess of the area tabulated. But in some cases, where the fractional part closely approximates to a pole, the nearest whole number has been given. The error arising therefrom is in general less than one pole or perch, an amount which may safely be neglected. For instance, in computing payments for labour it could not exceed 1½d. at £1 per acre, or in valuing for sale, at £1,000 per acre, the defect could not exceed £6.

Digitized by Google

CONTENTS.

PART I.

PAGE

A Complete Ready Reckoner for the Admeasurement of Land 1

A Table for the Computation of Work, by perches, roods, and acres, from 2*s*. 6*d*. to 20*s*. an acre . . 81

PART II.

Tables for the Valuation of Land, from 1*s*. to £1000 per acre, and from 1 pole to 2000 acres in extent . 91

Tables for converting Statute into Provincial measure and *vice versâ* 135

Table for converting Statute into Scotch Measure and *vice versâ* 140

Table for converting yards into links 141

Table of Superficial, or Square Measure 142

Table of Lineal, or Long Measure 143

Table of Squares and Square Roots, 1 to 100 144

Digitized by Google

PART I.

A

COMPLETE READY RECKONER

FOR

THE ADMEASUREMENT OF LAND.

Twenty-five Links and under One Chain.

Width in Links.	25 Links.		30 Links.		40 Links.		50 Links.		60 Links.		70 Links.		80 Links.		90 Links.	
	Poles.	Yds.	Poles.	Yds.	Poles.	Yds.	Poles.	Yds.	Poles.	Yds.	Poles.	Yds.	Poles	Yds.	Poles.	Yds.
10	0	12	0	13	0	18	0	24	0	28	1	3	1	8	1	13
20	0	24	0	27	1	6	1	18	1	27	2	7	2	16	2	26
30	1	6	1	12	1	27	2	12	2	24	3	10	3	24	4	12
40	1	18	1	27	2	15	3	6	3	24	4	12	5	3	5	21
50	2	0	2	12	3	6	4	0	4	24	5	18	6	12	7	6
60	2	12	2	24	3	24	4	25	5	22	6	21	7	20	8	0
70	2	24	3	9	4	12	5	18	6	21	7	25	8	28	10	0
80	3	6	3	24	5	3	6	12	7	20	8	28	10	7	11	15
90	3	18	4	12	5	21	7	6	8	0	10	0	11	15	12	28

Digitized by Google

One Chain and

Width in Links.	100			105			110			115			120		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
5	0	0	0¾	0	0	0¾	0	0	0¾	0	0	1	0	0	1
10	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
20	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
30	0	0	4	0	0	5	0	0	5	0	0	5	0	0	5
40	0	0	6	0	0	6	0	0	7	0	0	7	0	0	7
50	0	0	8	0	0	8	0	0	8	0	0	9	0	0	9
60	0	0	9	0	0	10	0	0	10	0	0	11	0	0	11
70	0	0	11	0	0	11	0	0	12	0	0	12	0	0	13
80	0	0	12	0	0	13	0	0	14	0	0	14	0	0	15
90	0	0	14	0	0	15	0	0	15	0	0	16	0	0	17
100	0	0	16	0	0	16	0	0	17	0	0	18	0	0	19
110		..			..		0	0	19	0	0	20	0	0	21
120		..			..			..			..		0	0	23
130		..			..			..			..			..	
140		..			..			..			..			..	

Width in Links.	150			155			160			165			170		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
5	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
10	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
20	0	0	4	0	0	4	0	0	5	0	0	5	0	0	5
30	0	0	7	0	0	7	0	0	7	0	0	7	0	0	8
40	0	0	9	0	0	9	0	0	10	0	0	10	0	0	10
50	0	0	12	0	0	12	0	0	12	0	0	13	0	0	13
60	0	0	14	0	0	14	0	0	15	0	0	15	0	0	16
70	0	0	16	0	0	17	0	0	17	0	0	18	0	0	19
80	0	0	19	0	0	19	0	0	20	0	0	21	0	0	21
90	0	0	21	0	0	22	0	0	23	0	0	23	0	0	24
100	0	0	24	0	0	24	0	0	25	0	0	26	0	0	27
110	0	0	26	0	0	27	0	0	28	0	0	29	0	0	29
120	0	0	28	0	0	29	0	0	30	0	0	31	0	0	32
130	0	0	31	0	0	32	0	0	33	0	0	34	0	0	35
140	0	0	33	0	0	34	0	0	35	0	0	36	0	0	38
150	0	0	36	0	0	37	0	0	38	0	0	39	0	1	0
160		..			..		0	1	0	0	1	2	0	1	3
170		..			..			..			..		0	1	6

Digitized by Google

under Two Chains in Length.

Width in Links.	125			130			135			140			145		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
5	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
10	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
20	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
30	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
40	0	0	8	0	0	8	0	0	8	0	0	8	0	0	9
50	0	0	10	0	0	10	0	0	10	0	0	11	0	0	11
60	0	0	12	0	0	12	0	0	12	0	0	13	0	0	13
70	0	0	14	0	0	15	0	0	15	0	0	15	0	0	16
80	0	0	16	0	0	17	0	0	17	0	0	17	0	0	18
90	0	0	18	0	0	19	0	0	19	0	0	20	0	0	20
100	0	0	20	0	0	21	0	0	21	0	0	22	0	0	23
110	0	0	22	0	0	22	0	0	23	0	0	24	0	0	25
120	0	0	24	0	0	24	0	0	25	0	0	26	0	0	27
130		..		0	0	27	0	0	28	0	0	29	0	0	30
140		..			..			..		0	0	31	0	0	32

Width in Links.	175			180			185			190			195		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
5	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
10	0	0	2	0	0	2	0	0	2	0	0	3	0	0	3
20	0	0	5	0	0	5	0	0	5	0	0	6	0	0	6
30	0	0	8	0	0	8	0	0	8	0	0	9	0	0	9
40	0	0	11	0	0	11	0	0	11	0	0	12	0	0	12
50	0	0	14	0	0	14	0	0	14	0	0	15	0	0	15
60	0	0	16	0	0	17	0	0	17	0	0	18	0	0	18
70	0	0	19	0	0	20	0	0	20	0	0	21	0	0	21
80	0	0	22	0	0	23	0	0	23	0	0	24	0	0	24
90	0	0	25	0	0	25	0	0	26	0	0	27	0	0	28
100	0	0	28	0	0	28	0	0	29	0	0	30	0	0	31
110	0	0	30	0	0	31	0	0	32	0	0	33	0	0	34
120	0	0	33	0	0	34	0	0	35	0	0	36	0	0	37
130	0	0	36	0	0	37	0	0	38	0	0	39	0	1	0
140	0	0	39	0	1	0	0	1	0	0	1	2	0	1	3
150	0	1	2	0	1	3	0	1	4	0	1	5	0	1	6
160	0	1	4	0	1	6	0	1	7	0	1	8	0	1	9
170	0	1	7	0	1	8	0	1	10	0	1	11	0	1	13
180		..		0	1	11	0	1	13	0	1	14	0	1	16
190		..			..			..		0	1	17	0	1	19

Digitized by Google

Two Chains and

Width in Links.	200			205			210			215			220		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
5	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
10	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
20	0	0	6	0	0	6	0	0	6	0	0	7	0	0	7
30	0	0	9	0	0	10	0	0	10	0	0	10	0	0	10
40	0	0	12	0	0	13	0	0	13	0	0	14	0	0	14
50	0	0	16	0	0	16	0	0	17	0	0	17	0	0	18
60	0	0	19	0	0	20	0	0	20	0	0	21	0	0	21
70	0	0	22	0	0	23	0	0	24	0	0	24	0	0	25
80	0	0	25	0	0	26	0	0	27	0	0	28	0	0	28
90	0	0	28	0	0	30	0	0	30	0	0	31	0	0	32
100	0	0	32	0	0	33	0	0	34	0	0	35	0	0	36
110	0	0	35	0	0	36	0	0	37	0	0	38	0	0	39
120	0	0	38	0	1	0	0	1	1	0	1	2	0	1	3
130	0	1	2	0	1	3	0	1	4	0	1	5	0	1	6
140	0	1	4	0	1	7	0	1	8	0	1	9	0	1	10
150	0	1	8	0	1	10	0	1	11	0	1	12	0	1	14
160	0	1	11	0	1	13	0	1	15	0	1	16	0	1	17
170	0	1	14	0	1	17	0	1	18	0	1	19	0	1	21
180	0	1	17	0	1	20	0	1	21	0	1	23	0	1	24
190	0	1	20	0	1	23	0	1	25	0	1	26	0	1	28
200	0	1	24	0	1	27	0	1	28	0	1	30	0	1	30
210		..			..		0	1	30	0	1	32	0	1	33
220		..			..			..			..		0	1	37

Digitized by Google

under Two Chains and a Half.

Width in Links.	225			230			235			240			245		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
5	0	0	1	0	0	1	0	0	1	0	0	2	0	0	2
10	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
20	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
30	0	0	10	0	0	11	0	0	11	0	0	11	0	0	11
40	0	0	14	0	0	14	0	0	15	0	0	15	0	0	15
50	0	0	18	0	0	18	0	0	18	0	0	19	0	0	19
60	0	0	21	0	0	22	0	0	22	0	0	23	0	0	23
70	0	0	25	0	0	25	0	0	26	0	0	26	0	0	27
80	0	0	28	0	0	29	0	0	30	0	0	30	0	0	31
90	0	0	32	0	0	33	0	0	33	0	0	34	0	0	35
100	0	0	36	0	0	36	0	0	37	0	0	38	0	0	39
110	0	0	39	0	1	0	0	1	1	0	1	2	0	1	2
120	0	1	3	0	1	4	0	1	5	0	1	6	0	1	7
130	0	1	6	0	1	7	0	1	8	0	1	9	0	1	10
140	0	1	10	0	1	11	0	1	12	0	1	13	0	1	15
150	0	1	14	0	1	15	0	1	16	0	1	17	0	1	18
160	0	1	17	0	1	18	0	1	20	0	1	21	0	1	22
170	0	1	21	0	1	22	0	1	23	0	1	25	0	1	26
180	0	1	24	0	1	26	0	1	27	0	1	29	0	1	30
190	0	1	28	0	1	29	0	1	31	0	1	32	0	1	34
200	0	1	32	0	1	33	0	1	35	0	1	36	0	1	38
210	0	1	35	0	1	37	0	1	38	0	2	0	0	2	2
220	0	1	39	0	2	0	0	2	2	0	2	4	0	2	6
230		..		0	2	4	0	2	6	0	2	8	0	2	10
240		..			..			..		0	2	12	0	2	14

Digitized by Google

Two Chains and a Half and

Width in Links.	250			255			260			265			270		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
3	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
6	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
10	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
20	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
30	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
40	0	0	16	0	0	16	0	0	16	0	0	16	0	0	17
50	0	0	20	0	0	20	0	0	20	0	0	21	0	0	21
60	0	0	24	0	0	24	0	0	24	0	0	25	0	0	25
70	0	0	28	0	0	28	0	0	29	0	0	29	0	0	30
80	0	0	32	0	0	32	0	0	33	0	0	33	0	0	34
90	0	0	36	0	0	36	0	0	37	0	0	38	0	0	38
100	0	1	0	0	1	0	0	1	1	0	1	2	0	1	3
110	0	1	4	0	1	4	0	1	5	0	1	6	0	1	7
120	0	1	8	0	1	8	0	1	9	0	1	10	0	1	11
130	0	1	12	0	1	13	0	1	14	0	1	15	0	1	16
140	0	1	16	0	1	17	0	1	18	0	1	19	0	1	20
150	0	1	20	0	1	21	0	1	22	0	1	23	0	1	24
160	0	1	24	0	1	25	0	1	26	0	1	27	0	1	29
170	0	1	28	0	1	29	0	1	30	0	1	32	0	1	33
180	0	1	32	0	1	33	0	1	34	0	1	36	0	1	37
190	0	1	36	0	1	37	0	1	39	0	2	0	0	2	2
200	0	2	0	0	2	1	0	2	3	0	2	4	0	2	6
210	0	2	4	0	2	5	0	2	7	0	2	9	0	2	10
220	0	2	8	0	2	9	0	2	11	0	2	13	0	2	14
230	0	2	12	0	2	13	0	2	15	0	2	17	0	2	19
240	0	2	16	0	2	17	0	2	19	0	2	21	0	2	23
250	0	2	20	0	2	22	0	2	24	0	2	26	0	2	28
260	..			..			0	2	28	0	2	30	0	2	32
270	..			..			..			..			0	2	36

Digitized by Google

under Three Chains.

Width in Links.	275			280			285			290			295		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
3	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
5	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
10	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
20	0	0	8	0	0	8	0	0	9	0	0	9	0	0	9
30	0	0	13	0	0	13	0	0	13	0	0	13	0	0	14
40	0	0	17	0	0	17	0	0	18	0	0	18	0	0	19
50	0	0	22	0	0	22	0	0	22	0	0	23	0	0	23
60	0	0	26	0	0	26	0	0	27	0	0	27	0	0	27
70	0	0	30	0	0	31	0	0	32	0	0	32	0	0	32
80	0	0	35	0	0	35	0	0	36	0	0	37	0	0	38
90	0	0	39	0	1	0	0	1	1	0	1	1	0	1	2
100	0	1	4	0	1	4	0	1	5	0	1	6	0	1	7
110	0	1	8	0	1	9	0	1	10	0	1	11	0	1	12
120	0	1	12	0	1	13	0	1	14	0	1	15	0	1	16
130	0	1	17	0	1	18	0	1	19	0	1	20	0	1	21
140	0	1	21	0	1	22	0	1	23	0	1	26	0	1	27
150	0	1	26	0	1	27	0	1	28	0	1	29	0	1	31
160	0	1	30	0	1	31	0	1	32	0	1	34	0	1	35
170	0	1	34	0	1	36	0	1	37	0	1	38	0	2	0
180	0	1	39	0	2	0	0	2	2	0	2	3	0	2	5
190	0	2	3	0	2	5	0	2	6	0	2	8	0	2	10
200	0	2	8	0	2	9	0	2	11	0	2	12	0	2	14
210	0	2	12	0	2	14	0	2	15	0	2	17	0	2	18
220	0	2	16	0	2	18	0	2	20	0	2	22	0	2	23
230	0	2	21	0	2	23	0	2	24	0	2	26	0	2	28
240	0	2	25	0	2	27	0	2	29	0	2	31	0	2	33
250	0	2	30	0	2	32	0	2	34	0	2	36	0	2	38
260	0	2	34	0	2	36	0	2	38	0	3	0	0	3	2
270	0	2	38	0	3	0	0	3	2	0	3	5	0	3	7
280	..			0	3	5	0	3	7	0	3	9	0	3	11
290	..			..			..			0	3	14	0	3	16

Digitized by Google

Three Chains and

Width in Links.	300			305			310			315			320		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
3	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
5	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
10	0	0	4	0	0	4	0	0	4	0	0	4	0	0	5
20	0	0	9	0	0	9	0	0	9	0	0	10	0	0	10
30	0	0	14	0	0	14	0	0	14	0	0	15	0	0	15
40	0	0	19	0	0	19	0	0	19	0	0	20	0	0	20
50	0	0	23	0	0	24	0	0	24	0	0	25	0	0	25
60	0	0	29	0	0	29	0	0	30	0	0	30	0	0	30
70	0	0	34	0	0	34	0	0	34	0	0	35	0	0	35
80	0	0	38	0	0	39	0	0	39	0	1	0	0	1	0
90	0	1	2	0	1	3	0	1	4	0	1	5	0	1	6
100	0	1	8	0	1	8	0	1	9	0	1	10	0	1	11
110	0	1	12	0	1	13	0	1	14	0	1	15	0	1	16
120	0	1	18	0	1	18	0	1	19	0	1	20	0	1	21
130	0	1	21	0	1	23	0	1	24	0	1	25	0	1	26
140	0	1	27	0	1	28	0	1	29	0	1	30	0	1	31
150	0	1	32	0	1	33	0	1	34	0	1	35	0	1	36
160	0	1	37	0	1	38	0	1	39	0	2	0	0	2	1
170	0	2	1	0	2	2	0	2	4	0	2	5	0	2	7
180	0	2	6	0	2	7	0	2	9	0	2	10	0	2	12
190	0	2	11	0	2	12	0	2	14	0	2	15	0	2	17
200	0	2	16	0	2	17	0	2	19	0	2	20	0	2	22
210	0	2	20	0	2	22	0	2	24	0	2	25	0	2	27
220	0	2	25	0	2	27	0	2	29	0	2	30	0	2	32
230	0	2	30	0	2	32	0	2	34	0	2	35	0	2	37
240	0	2	35	0	2	37	0	2	39	0	3	0	0	3	2
250	0	3	0	0	3	2	0	3	4	0	3	6	0	3	8
260	0	3	4	0	3	6	0	3	8	0	3	11	0	3	13
270	0	3	9	0	3	11	0	3	13	0	3	16	0	3	18
280	0	3	14	0	3	16	0	3	18	0	3	21	0	3	23
290	0	3	19	0	3	21	0	3	23	0	3	26	0	3	28
300	0	3	24	0	3	26	0	3	28	0	3	31	0	3	33

Digitized by Google

under Three Chains and a Half.

Width in Links.	325			330			335			340			345		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
4	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
6	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
8	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
10	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
20	0	0	10	0	0	10	0	0	10	0	0	10	0	0	11
30	0	0	15	0	0	15	0	0	16	0	0	16	0	0	16
40	0	0	20	0	0	21	0	0	21	0	0	21	0	0	22
50	0	0	26	0	0	26	0	0	26	0	0	27	0	0	27
60	0	0	31	0	0	31	0	0	32	0	0	32	0	0	33
70	0	0	36	0	0	36	0	0	37	0	0	38	0	0	38
80	0	1	1	0	1	2	0	1	2	0	1	3	0	1	4
90	0	1	6	0	1	7	0	1	8	0	1	8	0	1	9
100	0	1	12	0	1	12	0	1	13	0	1	14	0	1	15
110	0	1	17	0	1	18	0	1	18	0	1	19	0	1	20
120	0	1	22	0	1	22	0	1	24	0	1	25	0	1	26
130	0	1	27	0	1	28	0	1	29	0	1	31	0	1	31
140	0	1	32	0	1	33	0	1	34	0	1	36	0	1	37
150	0	1	37	0	1	39	0	2	0	0	2	1	0	2	2
160	0	2	2	0	2	4	0	2	5	0	2	7	0	2	8
170	0	2	8	0	2	9	0	2	10	0	2	12	0	2	13
180	0	2	13	0	2	15	0	2	16	0	2	17	0	2	19
190	0	2	19	0	2	20	0	2	21	0	2	23	0	2	24
200	0	2	24	0	2	25	0	2	26	0	2	28	0	2	30
210	0	2	29	0	2	30	0	2	32	0	2	34	0	2	35
220	0	2	34	0	2	36	0	2	37	0	2	39	0	3	1
230	0	2	39	0	3	1	0	3	3	0	3	5	0	3	6
240	0	3	4	0	3	6	0	3	8	0	3	10	0	3	12
250	0	3	10	0	3	12	0	3	14	0	3	16	0	3	18
260	0	3	15	0	3	17	0	3	19	0	3	21	0	3	23
270	0	3	20	0	3	22	0	3	24	0	3	26	0	3	29
280	0	3	25	0	3	27	0	3	30	0	3	32	0	3	34
290	0	3	31	0	3	33	0	3	35	0	3	37	1	0	0
300	0	3	36	0	3	38	1	0	0	1	0	3	1	0	5

Digitized by Google

Three Chains and a Half and

Width in Links.	350			355			360			365			370		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
4	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
6	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
8	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
10	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
20	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
30	0	0	16	0	0	17	0	0	17	0	0	17	0	0	17
40	0	0	22	0	0	22	0	0	22	0	0	23	0	0	23
50	0	0	27	0	0	28	0	0	29	0	0	29	0	0	29
60	0	0	33	0	0	34	0	0	35	0	0	35	0	0	35
70	0	0	38	0	0	39	0	0	39	0	1	0	0	1	1
80	0	1	4	0	1	5	0	1	5	0	1	6	0	1	7
90	0	1	10	0	1	11	0	1	11	0	1	12	0	1	12
100	0	1	15	0	1	16	0	1	17	0	1	18	0	1	19
110	0	1	21	0	1	22	0	1	23	0	1	24	0	1	25
120	0	1	27	0	1	28	0	1	29	0	1	30	0	1	31
130	0	1	32	0	1	33	0	1	34	0	1	35	0	1	37
140	0	1	38	0	1	39	0	2	0	0	2	1	0	2	2
150	0	2	3	0	2	5	0	2	6	0	2	7	0	2	8
160	0	2	9	0	2	10	0	2	11	0	2	13	0	2	14
170	0	2	14	0	2	16	0	2	17	0	2	19	0	2	20
180	0	2	20	0	2	22	0	2	23	0	2	25	0	2	26
190	0	2	25	0	2	27	0	2	29	0	2	30	0	2	32
200	0	2	31	0	2	33	0	2	35	0	2	36	0	2	38
210	0	2	37	0	2	39	0	3	1	0	3	2	0	3	4
220	0	3	2	0	3	4	0	3	7	0	3	8	0	3	10
230	0	3	8	0	3	10	0	3	13	0	3	14	0	3	16
240	0	3	14	0	3	16	0	3	19	0	3	20	0	3	22
250	0	3	20	0	3	22	0	3	24	0	3	26	0	3	28
260	0	3	25	0	3	27	0	3	30	0	3	31	0	3	34
270	0	3	31	0	3	33	0	3	36	0	3	37	1	0	1
280	0	3	36	0	3	39	1	0	1	1	0	3	1	0	7
290	1	0	2	1	0	4	1	0	7	1	0	9	1	0	13
300	1	0	7	1	0	10	1	0	13	1	0	15	1	0	19

Digitized by Google

under Four Chains.

Width in Links.	375			380			385			390			395		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
4	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
6	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
8	0	0	4	0	0	4	0	0	4	0	0	4	0	0	5
10	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
20	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
30	0	0	18	0	0	18	0	0	18	0	0	18	0	0	18
40	0	0	24	0	0	24	0	0	24	0	0	24	0	0	25
50	0	0	30	0	0	30	0	0	30	0	0	31	0	0	31
60	0	0	36	0	0	36	0	0	36	0	0	37	0	0	37
70	0	1	2	0	1	2	0	1	2	0	1	3	0	1	3
80	0	1	8	0	1	8	0	1	8	0	1	9	0	1	10
90	0	1	14	0	1	14	0	1	15	0	1	16	0	1	16
100	0	1	20	0	1	20	0	1	21	0	1	22	0	1	23
110	0	1	26	0	1	26	0	1	27	0	1	28	0	1	29
120	0	1	32	0	1	32	0	1	33	0	1	34	0	1	35
130	0	1	38	0	1	39	0	2	0	0	2	1	0	2	2
140	0	2	4	0	2	5	0	2	6	0	2	7	0	2	8
150	0	2	10	0	2	11	0	2	12	0	2	13	0	2	14
160	0	2	16	0	2	17	0	2	18	0	2	19	0	2	20
170	0	2	22	0	2	23	0	2	24	0	2	26	0	2	27
180	0	2	28	0	2	29	0	2	30	0	2	32	0	2	33
190	0	2	34	0	2	35	0	2	36	0	2	38	0	3	0
200	0	3	0	0	3	1	0	3	2	0	3	4	0	3	6
210	0	3	6	0	3	7	0	3	8	0	3	11	0	3	12
220	0	3	12	0	3	13	0	3	16	0	3	17	0	3	18
230	0	3	18	0	3	19	0	3	22	0	3	23	0	3	25
240	0	3	24	0	3	25	0	3	28	0	3	29	0	3	31
250	0	3	30	0	3	32	0	3	34	0	3	36	0	3	38
260	0	3	36	0	3	39	1	0	0	1	0	2	1	0	4
270	1	0	2	1	0	4	1	0	6	1	0	8	1	0	10
280	1	0	8	1	0	10	1	0	12	1	0	14	1	0	16
290	1	0	14	1	0	16	1	0	18	1	0	20	1	0	22
300	1	0	20	1	0	22	1	0	24	1	0	27	1	0	29

Digitized by Google

Four Chains and

Width in Links.	400			405			410			415			420		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
4	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
6	0	0	3	0	0	3	0	0	3	0	0	3	0	0	4
8	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
10	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
20	0	0	12	0	0	12	0	0	13	0	0	13	0	0	13
30	0	0	19	0	0	19	0	0	19	0	0	19	0	0	20
40	0	0	25	0	0	25	0	0	26	0	0	26	0	0	26
50	0	0	32	0	0	32	0	0	32	0	0	33	0	0	33
60	0	0	38	0	0	38	0	0	39	0	0	39	0	1	0
70	0	1	4	0	1	5	0	1	5	0	1	6	0	1	7
80	0	1	11	0	1	11	0	1	11	0	1	12	0	1	13
90	0	1	17	0	1	18	0	1	19	0	1	19	0	1	20
100	0	1	24	0	1	24	0	1	25	0	1	26	0	1	27
110	0	1	30	0	1	31	0	1	32	0	1	33	0	1	33
120	0	1	36	0	1	37	0	1	38	0	1	39	0	2	0
130	0	2	3	0	2	4	0	2	5	0	2	6	0	2	7
140	0	2	9	0	2	10	0	2	11	0	2	12	0	2	14
150	0	2	16	0	2	16	0	2	18	0	2	19	0	2	20
160	0	2	22	0	2	23	0	2	25	0	2	26	0	2	27
170	0	2	28	0	2	30	0	2	31	0	2	32	0	2	34
180	0	2	35	0	2	36	0	2	38	0	2	39	0	3	0
190	0	3	1	0	3	3	0	3	4	0	3	6	0	3	7
200	0	3	8	0	3	9	0	3	11	0	3	12	0	3	14
210	0	3	14	0	3	16	0	3	17	0	3	19	0	3	21
220	0	3	20	0	3	22	0	3	24	0	3	26	0	3	27
230	0	3	27	0	3	29	0	3	30	0	3	32	0	3	34
240	0	3	33	0	3	35	0	3	37	0	3	39	1	0	1
250	1	0	0	1	0	2	1	0	4	1	0	6	1	0	8
260	1	0	6	1	0	8	1	0	10	1	0	12	1	0	14
270	1	0	12	1	0	14	1	0	17	1	0	19	1	0	21
280	1	0	19	1	0	21	1	0	23	1	0	25	1	0	28
290	1	0	25	1	0	27	1	0	29	1	0	32	1	0	34
300	1	0	32	1	0	34	1	0	36	1	0	39	1	1	1

Digitized by Google

under Four Chains and a Hay.

Width in Links.	425			430			435			440			445		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
4	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
6	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
8	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
10	0	0	6	0	0	6	0	0	7	0	0	7	0	0	7
20	0	0	13	0	0	13	0	0	13	0	0	14	0	0	14
30	0	0	20	0	0	20	0	0	20	0	0	21	0	0	21
40	0	0	27	0	0	27	0	0	27	0	0	28	0	0	28
50	0	0	34	0	0	34	0	0	34	0	0	35	0	0	35
60	0	1	0	0	1	1	0	1	1	0	1	2	0	1	2
70	0	1	7	0	1	8	0	1	8	0	1	9	0	1	9
80	0	1	14	0	1	15	0	1	15	0	1	16	0	1	16
90	0	1	21	0	1	21	0	1	22	0	1	23	0	1	24
100	0	1	28	0	1	28	0	1	29	0	1	30	0	1	31
110	0	1	34	0	1	35	0	1	36	0	1	37	0	1	38
120	0	2	1	0	2	2	0	2	3	0	2	4	0	2	5
130	0	2	8	0	2	9	0	2	10	0	2	11	0	2	12
140	0	2	15	0	2	16	0	2	17	0	2	18	0	2	19
150	0	2	22	0	2	23	0	2	24	0	2	25	0	2	26
160	0	2	28	0	2	30	0	2	31	0	2	32	0	2	33
170	0	2	35	0	2	36	0	2	38	0	2	39	0	3	1
180	0	3	2	0	3	3	0	3	5	0	3	6	0	3	8
190	0	3	9	0	3	10	0	3	11	0	3	13	0	3	15
200	0	3	16	0	3	17	0	3	19	0	3	20	0	3	22
210	0	3	22	0	3	24	0	3	26	0	3	27	0	3	29
220	0	3	29	0	3	31	0	3	33	0	3	34	0	3	36
230	0	3	36	0	3	38	1	0	0	1	0	1	1	0	3
240	1	0	3	1	0	5	1	0	7	1	0	8	1	0	10
250	1	0	10	1	0	12	1	0	14	1	0	16	1	0	18
260	1	0	16	1	0	18	1	0	20	1	0	23	1	0	25
270	1	0	23	1	0	25	1	0	27	1	0	30	1	0	32
290	1	0	30	1	0	32	1	0	34	1	0	37	1	0	39
280	1	0	37	1	0	39	1	1	1	1	1	4	1	1	6
300	1	1	4	1	1	6	1	1	8	1	1	11	1	1	13

Digitized by Google

Four Chains and a Half and

Width in Links.	450			455			460			465			470		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
4	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
6	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
8	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
10	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
20	0	0	14	0	0	14	0	0	14	0	0	14	0	0	15
30	0	0	21	0	0	21	0	0	22	0	0	22	0	0	22
40	0	0	28	0	0	29	0	0	29	0	0	29	0	0	30
50	0	0	36	0	0	36	0	0	36	0	0	37	0	0	37
60	0	1	3	0	1	3	0	1	4	0	1	4	0	1	5
70	0	1	10	0	1	10	0	1	11	0	1	12	0	1	12
80	0	1	17	0	1	18	0	1	18	0	1	19	0	1	20
90	0	1	24	0	1	25	0	1	26	0	1	26	0	1	27
100	0	1	32	0	1	32	0	1	33	0	1	34	0	1	35
110	0	1	39	0	2	0	0	2	0	0	2	1	0	2	2
120	0	2	6	0	2	7	0	2	8	0	2	9	0	2	10
130	0	2	13	0	2	14	0	2	15	0	2	16	0	2	17
140	0	2	20	0	2	21	0	2	23	0	2	24	0	2	25
150	0	2	28	0	2	29	0	2	30	0	2	31	0	2	32
160	0	2	35	0	2	36	0	2	37	0	2	39	0	3	0
170	0	3	2	0	3	3	0	3	5	0	3	6	0	3	7
180	0	3	9	0	3	11	0	3	12	0	3	13	0	3	15
190	0	3	16	0	3	18	0	3	19	0	3	21	0	3	22
200	0	3	24	0	3	25	0	3	27	0	3	28	0	3	30
210	0	3	31	0	3	32	0	3	34	0	3	36	0	3	37
220	0	3	38	1	0	0	1	0	1	1	0	3	1	0	5
230	1	0	5	1	0	7	1	0	9	1	0	11	1	0	12
240	1	0	12	1	0	14	1	0	16	1	0	18	1	0	20
250	1	0	20	1	0	22	1	0	24	1	0	26	1	0	28
260	1	0	27	1	0	29	1	0	31	1	0	33	1	0	35
270	1	0	34	1	0	36	1	0	38	1	1	0	1	1	3
280	1	1	1	1	1	3	1	1	6	1	1	8	1	1	10
290	1	1	8	1	1	11	1	1	13	1	1	15	1	1	18
300	1	1	16	1	1	18	1	1	20	1	1	22	1	1	25
400	1	3	8	1	3	10	1	3	14	1	3	18	1	3	20

Digitized by Google

under Five Chains.

Width in Links.	475			480			485			490			495		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
4	0	0	2	0	0	2	0	0	3	0	0	3	0	0	3
6	0	0	3	0	0	3	0	0	4	0	0	4	0	0	4
8	0	0	5	0	0	5	0	0	6	0	0	6	0	0	6
10	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
20	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
30	0	0	22	0	0	23	0	0	23	0	0	23	0	0	23
40	0	0	30	0	0	30	0	0	31	0	0	31	0	0	31
50	0	0	38	0	0	38	0	0	38	0	0	39	0	0	39
60	0	1	5	0	1	6	0	1	6	0	1	7	0	1	7
70	0	1	13	0	1	13	0	1	14	0	1	14	0	1	15
80	0	1	20	0	1	21	0	1	22	0	1	22	0	1	23
90	0	1	28	0	1	29	0	1	29	0	1	30	0	1	31
100	0	1	36	0	1	37	0	1	37	0	1	38	0	1	39
110	0	2	3	0	2	5	0	2	5	0	2	6	0	2	7
120	0	2	11	0	2	13	0	2	13	0	2	14	0	2	15
130	0	2	18	0	2	20	0	2	20	0	2	21	0	2	22
140	0	2	26	0	2	28	0	2	28	0	2	29	0	2	30
150	0	2	34	0	2	36	0	2	36	0	2	37	0	2	38
160	0	3	1	0	3	3	0	3	4	0	3	5	0	3	6
170	0	3	9	0	3	11	0	3	11	0	3	13	0	3	14
180	0	3	17	0	3	19	0	3	19	0	3	21	0	3	22
190	0	3	25	0	3	26	0	3	27	0	3	28	0	3	30
200	0	3	33	0	3	34	0	3	35	0	3	36	0	3	38
210	1	0	0	1	0	2	1	0	2	1	0	4	1	0	6
220	1	0	8	1	0	9	1	0	10	1	0	12	1	0	14
230	1	0	15	1	0	17	1	0	18	1	0	20	1	0	22
240	1	0	23	1	0	25	1	0	26	1	0	28	1	0	30
250	1	0	30	1	0	32	1	0	34	1	0	36	1	0	38
260	1	0	38	1	1	0	1	1	1	1	1	3	1	1	5
270	1	1	6	1	1	8	1	1	9	1	1	11	1	1	13
280	1	1	13	1	1	16	1	1	17	1	1	19	1	1	21
290	1	1	21	1	1	23	1	1	25	1	1	27	1	1	29
300	1	1	29	1	1	31	1	1	32	1	1	35	1	1	37
400	1	3	24	1	3	28	1	3	30	1	3	34	1	3	36

Digitized by Google

Five Chains and

Width in Links.	500			505			510			515			520		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
4	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
6	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
8	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
10	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
20	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
30	0	0	24	0	0	24	0	0	24	0	0	24	0	0	24
40	0	0	32	0	0	32	0	0	32	0	0	32	0	0	33
50	0	1	0	0	1	0	0	1	0	0	1	1	0	1	1
60	0	1	8	0	1	8	0	1	8	0	1	9	0	1	9
70	0	1	16	0	1	16	0	1	17	0	1	17	0	1	18
80	0	1	24	0	1	24	0	1	25	0	1	25	0	1	26
90	0	1	32	0	1	32	0	1	33	0	1	34	0	1	34
100	0	2	0	0	2	0	0	2	1	0	2	2	0	2	3
110	0	2	8	0	2	8	0	2	9	0	2	10	0	2	11
120	0	2	16	0	2	16	0	2	17	0	2	18	0	2	19
130	0	2	24	0	2	25	0	2	26	0	2	27	0	2	28
140	0	2	32	0	2	33	0	2	34	0	2	35	0	2	36
150	0	3	0	0	3	1	0	3	2	0	3	3	0	3	5
160	0	3	8	0	3	9	0	3	10	0	3	11	0	3	14
170	0	3	16	0	3	17	0	3	18	0	3	20	0	3	22
180	0	3	24	0	3	25	0	3	26	0	3	28	0	3	30
190	0	3	32	0	3	33	0	3	35	0	3	36	0	3	39
200	1	0	0	1	0	1	1	0	3	1	0	4	1	0	7
210	1	0	8	1	0	9	1	0	11	1	0	13	1	0	15
220	1	0	16	1	0	17	1	0	19	1	0	21	1	0	24
230	1	0	24	1	0	25	1	0	27	1	0	29	1	0	32
240	1	0	32	1	0	33	1	0	35	1	0	37	1	1	0
250	1	1	0	1	1	2	1	1	4	1	1	6	1	1	8
260	1	1	8	1	1	10	1	1	12	1	1	14	1	1	17
270	1	1	16	1	1	18	1	1	20	1	1	22	1	1	25
280	1	1	24	1	1	26	1	1	28	1	1	30	1	1	33
290	1	1	32	1	1	34	1	1	36	1	1	38	1	2	1
300	1	2	0	1	2	2	1	2	4	1	2	7	1	2	11
400	2	0	0	2	0	4	2	0	6	2	0	9	2	0	14
500	2	2	0	2	2	4	2	2	8	2	2	12	2	2	16

Digitized by Google

under Five Chains and a Half.

Width in Links.	525			530			535			540			545		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
4	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
6	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
8	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
10	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
20	0	0	16	0	0	16	0	0	17	0	0	17	0	0	17
30	0	0	24	0	0	25	0	0	25	0	0	25	0	0	26
40	0	0	33	0	0	33	0	0	34	0	0	34	0	0	34
50	0	1	1	0	1	2	0	1	2	0	1	3	0	1	3
60	0	1	10	0	1	10	0	1	11	0	1	11	0	1	12
70	0	1	18	0	1	19	0	1	19	0	1	20	0	1	21
80	0	1	26	0	1	27	0	1	28	0	1	29	0	1	29
90	0	1	35	0	1	36	0	1	37	0	1	37	0	1	38
100	0	2	3	0	2	4	0	2	5	0	2	6	0	2	7
110	0	2	12	0	2	13	0	2	14	0	2	15	0	2	16
120	0	2	20	0	2	21	0	2	22	0	2	23	0	2	24
130	0	2	28	0	2	30	0	2	31	0	2	32	0	2	33
140	0	2	38	0	2	38	0	2	39	0	3	0	0	3	2
150	0	3	5	0	3	7	0	3	8	0	3	9	0	3	10
160	0	3	14	0	3	15	0	3	16	0	3	18	0	3	19
170	0	3	22	0	3	24	0	3	25	0	3	26	0	3	28
180	0	3	30	0	3	33	0	3	34	0	3	35	0	3	37
190	0	3	39	1	0	1	1	0	2	1	0	4	1	0	5
200	1	0	8	1	0	9	1	0	11	1	0	12	1	0	14
210	1	0	15	1	0	18	1	0	19	1	0	21	1	0	23
220	1	0	24	1	0	26	1	0	28	1	0	30	1	0	31
230	1	0	32	1	0	35	1	0	36	1	0	38	1	1	0
240	1	1	2	1	1	3	1	1	5	1	1	7	1	1	9
250	1	1	10	1	1	12	1	1	14	1	1	16	1	1	18
260	1	1	17	1	1	20	1	1	22	1	1	24	1	1	26
270	1	1	27	1	1	28	1	1	31	1	1	33	1	1	35
280	1	1	35	1	1	37	1	1	39	1	2	1	1	2	4
290	1	2	3	1	2	5	1	2	8	1	2	10	1	2	13
300	1	2	11	1	2	14	1	2	16	1	2	19	1	2	21
400	2	0	16	2	0	18	2	0	22	2	0	25	2	0	28
500	2	2	20	2	2	24	2	2	28	2	2	32	2	2	36

Digitized by Google

Five Chains and a Half and

Width in Links.	550			555			560			565			570		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
4	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
6	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
8	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
10	0	0	8	0	0	8	0	0	8	0	0	9	0	0	9
20	0	0	17	0	0	17	0	0	17	0	0	18	0	0	18
30	0	0	26	0	0	26	0	0	26	0	0	27	0	0	27
40	0	0	35	0	0	35	0	0	35	0	0	36	0	0	36
50	0	1	4	0	1	4	0	1	4	0	1	5	0	1	5
60	0	1	12	0	1	13	0	1	13	0	1	14	0	1	14
70	0	1	21	0	1	22	0	1	22	0	1	23	0	1	23
80	0	1	30	0	1	31	0	1	31	0	1	32	0	1	32
90	0	1	39	0	1	39	0	2	0	0	2	2	0	2	2
100	0	2	8	0	2	8	0	2	9	0	2	10	0	2	11
110	0	2	16	0	2	17	0	2	18	0	2	19	0	2	20
120	0	2	25	0	2	26	0	2	27	0	2	28	0	2	29
130	0	2	34	0	2	35	0	2	36	0	2	37	0	2	38
140	0	3	3	0	3	4	0	3	5	0	3	6	0	3	7
150	0	3	12	0	3	13	0	3	14	0	3	15	0	3	16
160	0	3	20	0	3	22	0	3	23	0	3	24	0	3	25
170	0	3	29	0	3	30	0	3	32	0	3	33	0	3	35
180	0	3	38	0	3	39	1	0	1	1	0	2	1	0	4
190	1	0	7	1	0	8	1	0	10	1	0	11	1	0	13
200	1	0	16	1	0	17	1	0	19	1	0	20	1	0	22
210	1	0	24	1	0	26	1	0	28	1	0	29	1	0	31
220	1	0	33	1	0	35	1	0	37	1	0	38	1	1	0
230	1	1	2	1	1	4	1	1	6	1	1	7	1	1	9
240	1	1	11	1	1	13	1	1	15	1	1	16	1	1	18
250	1	1	20	1	1	22	1	1	24	1	1	26	1	1	28
260	1	1	28	1	1	30	1	1	32	1	1	35	1	1	37
270	1	1	37	1	1	39	1	2	1	1	2	4	1	2	6
280	1	2	6	1	2	8	1	2	10	1	2	13	1	2	15
290	1	2	15	1	2	17	1	2	19	1	2	22	1	2	24
300	1	2	24	1	2	26	1	2	28	1	2	31	1	2	33
400	2	0	32	2	0	34	2	0	38	2	1	2	2	1	4
500	2	3	0	2	3	4	2	3	8	2	3	12	2	3	16

Digitized by Google

under Six Chains.

Width in Links.	575			580			585			590			595		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
4	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
6	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
8	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
10	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
20	0	0	18	0	0	18	0	0	18	0	0	18	0	0	19
30	0	0	27	0	0	27	0	0	28	0	0	28	0	0	29
40	0	0	36	0	0	37	0	0	37	0	0	37	0	0	38
50	0	1	6	0	1	6	0	1	7	0	1	7	0	1	7
60	0	1	15	0	1	15	0	1	17	0	1	17	0	1	17
70	0	1	24	0	1	24	0	1	26	0	1	26	0	1	26
80	0	1	33	0	1	34	0	1	35	0	1	36	0	1	36
90	0	2	2	0	2	3	0	2	5	0	2	6	0	2	7
100	0	2	12	0	2	12	0	2	14	0	2	15	0	2	16
110	0	2	21	0	2	22	0	2	23	0	2	24	0	2	25
120	0	2	30	0	2	31	0	2	33	0	2	34	0	2	34
130	0	2	39	0	3	0	0	3	2	0	3	3	0	3	3
140	0	3	8	0	3	9	0	3	11	0	3	12	0	3	13
150	0	3	18	0	3	19	0	3	21	0	3	21	0	3	23
160	0	3	27	0	3	28	0	3	30	0	3	31	0	3	32
170	0	3	36	0	3	37	1	0	0	1	0	1	1	0	2
180	1	0	5	1	0	7	1	0	9	1	0	10	1	0	11
190	1	0	14	1	0	16	1	0	18	1	0	19	1	0	21
200	1	0	24	1	0	25	1	0	28	1	0	28	1	0	30
210	1	0	33	1	0	34	1	0	37	1	0	38	1	1	0
220	1	1	2	1	1	4	1	1	6	1	1	7	1	1	10
230	1	1	11	1	1	13	1	1	16	1	1	17	1	1	19
240	1	1	20	1	1	22	1	1	25	1	1	26	1	1	29
250	1	1	30	1	1	32	1	1	34	1	1	36	1	1	38
260	1	1	39	1	2	1	1	2	4	1	2	5	1	2	8
270	1	2	8	1	2	10	1	2	13	1	2	14	1	2	17
280	1	2	17	1	2	19	1	2	23	1	2	24	1	2	27
290	1	2	26	1	2	29	1	2	32	1	2	33	1	2	36
300	1	2	36	1	2	38	1	3	1	1	3	3	1	3	6
400	2	1	8	2	1	10	2	1	14	2	1	18	2	1	20
500	2	3	20	2	3	24	2	3	28	2	3	32	2	3	36

Digitized by Google

Six Chains and

Width in Links.	600			605			610			615			620		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
2	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
4	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
6	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
8	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
10	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
20	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
30	0	0	29	0	0	29	0	0	29	0	0	29	0	0	29
40	0	0	38	0	0	38	0	0	39	0	0	39	0	0	39
50	0	1	8	0	1	8	0	1	8	0	1	9	0	1	9
60	0	1	17	0	1	18	0	1	18	0	1	19	0	1	19
70	0	1	27	0	1	27	0	1	28	0	1	28	0	1	29
80	0	1	36	0	1	37	0	1	38	0	1	38	0	1	39
90	0	2	6	0	2	7	0	2	7	0	2	8	0	2	9
100	0	2	16	0	2	16	0	2	17	0	2	18	0	2	19
110	0	2	25	0	2	26	0	2	27	0	2	28	0	2	29
120	0	2	35	0	2	35	0	2	37	0	2	38	0	2	39
130	0	3	4	0	3	5	0	3	6	0	3	7	0	3	8
140	0	3	14	0	3	15	0	3	16	0	3	17	0	3	18
150	0	3	24	0	3	25	0	3	26	0	3	27	0	3	28
160	0	3	33	0	3	35	0	3	36	0	3	37	0	3	38
170	1	0	3	1	0	4	1	0	5	1	0	7	1	0	8
180	1	0	12	1	0	14	1	0	15	1	0	17	1	0	18
190	1	0	22	1	0	24	1	0	25	1	0	26	1	0	28
200	1	0	32	1	0	34	1	0	35	1	0	36	1	0	38
210	1	1	1	1	1	3	1	1	4	1	1	6	1	1	8
220	1	1	11	1	1	13	1	1	14	1	1	16	1	1	18
230	1	1	20	1	1	23	1	1	24	1	1	26	1	1	28
240	1	1	30	1	1	33	1	1	34	1	1	36	1	1	38
250	1	2	0	1	2	2	1	2	4	1	2	6	1	2	8
260	1	2	9	1	2	11	1	2	13	1	2	15	1	2	17
270	1	2	19	1	2	21	1	2	23	1	2	25	1	2	27
280	1	2	28	1	2	31	1	2	33	1	2	34	1	2	37
290	1	2	38	1	3	0	1	3	3	1	3	4	1	3	7
300	1	3	8	1	3	10	1	3	12	1	3	14	1	3	17
400	2	1	24	2	1	28	2	1	30	2	1	34	2	1	36
500	3	0	0	3	0	4	3	0	8	3	0	12	3	0	16
600	3	2	16	3	2	20	3	2	24	3	2	30	3	2	35

Digitized by Google

under Six Chains and a Half.

Width in Links.	625			630			635			640			645		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
4	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
5	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
6	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
7	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
8	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
9	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
10	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
20	0	0	20	0	0	20	0	0	20	0	0	20	0	0	20
30	0	0	30	0	0	30	0	0	30	0	0	30	0	0	30
40	0	1	0	0	1	0	0	1	0	0	1	0	0	1	1
50	0	1	10	0	1	10	0	1	10	0	1	11	0	1	11
60	0	1	20	0	1	20	0	1	20	0	1	21	0	1	21
70	0	1	30	0	1	30	0	1	31	0	1	31	0	1	31
80	0	2	0	0	2	0	0	2	1	0	2	1	0	2	2
90	0	2	10	0	2	10	0	2	11	0	2	12	0	2	12
100	0	2	20	0	2	20	0	2	21	0	2	22	0	2	23
110	0	2	30	0	2	30	0	2	31	0	2	32	0	2	33
120	0	3	0	0	3	0	0	3	1	0	3	2	0	3	3
130	0	3	10	0	3	11	0	3	12	0	3	13	0	3	14
140	0	3	20	0	3	21	0	3	22	0	3	23	0	3	24
150	0	3	30	0	3	31	0	3	32	0	3	33	0	3	34
160	1	0	0	1	0	1	1	0	2	1	0	3	1	0	5
170	1	0	10	1	0	11	1	0	12	1	0	14	1	0	15
180	1	0	20	1	0	21	1	0	22	1	0	24	1	0	25
190	1	0	30	1	0	31	1	0	33	1	0	34	1	0	36
200	1	1	0	1	1	1	1	1	3	1	1	4	1	1	6
210	1	1	10	1	1	11	1	1	13	1	1	15	1	1	16
220	1	1	20	1	1	21	1	1	23	1	1	25	1	1	27
230	1	1	30	1	1	31	1	1	33	1	1	35	1	1	37
240	1	2	0	1	2	1	1	2	3	1	2	5	1	2	7
250	1	2	10	1	2	12	1	2	14	1	2	16	1	2	18
300	1	3	20	1	3	22	1	3	24	1	3	27	1	3	29
400	2	2	0	2	2	3	2	2	6	2	2	9	2	2	12
500	3	0	20	3	0	24	3	0	28	3	0	32	3	0	36
600	3	3	0	3	3	4	3	3	10	3	3	14	3	3	19

Digitized by Google

Six Chains and a Half and

Width in Links.	650			655			660			665			670		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
4	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
5	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
6	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
7	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
8	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
9	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
10	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
20	0	0	20	0	0	20	0	0	21	0	0	21	0	0	21
30	0	0	31	0	0	31	0	0	31	0	0	31	0	0	32
40	0	1	1	0	1	1	0	1	2	0	1	2	0	1	2
50	0	1	12	0	1	12	0	1	12	0	1	13	0	1	13
60	0	1	22	0	1	22	0	1	23	0	1	23	0	1	24
70	0	1	32	0	1	33	0	1	33	0	1	34	0	1	35
80	0	2	3	0	2	3	0	2	4	0	2	5	0	2	5
90	0	2	13	0	2	14	0	2	15	0	2	15	0	2	16
100	0	2	24	0	2	24	0	2	25	0	2	26	0	2	27
110	0	2	34	0	2	35	0	2	36	0	2	37	0	2	37
120	0	3	4	0	3	5	0	3	6	0	3	7	0	3	8
130	0	3	15	0	3	16	0	3	17	0	3	18	0	3	19
140	0	3	25	0	3	26	0	3	27	0	3	28	0	3	30
150	0	3	36	0	3	37	0	3	38	0	3	39	1	0	0
160	1	0	6	1	0	7	1	0	8	1	0	10	1	0	11
170	1	0	16	1	0	18	1	0	19	1	0	20	1	0	22
180	1	0	27	1	0	28	1	0	30	1	0	30	1	0	32
190	1	0	37	1	0	39	1	1	0	1	1	1	1	1	3
200	1	1	8	1	1	9	1	1	11	1	1	13	1	1	14
210	1	1	19	1	1	20	1	1	21	1	1	22	1	1	25
220	1	1	29	1	1	30	1	1	32	1	1	33	1	1	35
230	1	2	0	1	2	1	1	2	2	1	2	5	1	2	6
240	1	2	10	1	2	11	1	2	13	1	2	14	1	2	17
250	1	2	20	1	2	22	1	2	24	1	2	26	1	2	28
260	1	2	31	1	2	32	1	2	34	1	2	35	1	2	38
270	1	3	1	1	3	2	1	3	5	1	3	6	1	3	9
280	1	3	12	1	3	13	1	3	15	1	3	18	1	3	20
290	1	3	22	1	3	23	1	3	26	1	3	27	1	3	30
300	1	3	33	1	3	34	1	3	36	1	3	38	2	0	1
400	2	2	17	2	2	19	2	2	22	2	2	26	2	2	28
500	3	1	0	3	1	4	3	1	8	3	1	12	3	1	16
600	3	3	24	3	3	29	3	3	34	3	3	38	4	0	2

Digitized by Google

under Seven Chains.

Width in Links.	675			680			685			690			695		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
4	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
5	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
6	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
7	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
8	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
9	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
10	0	0	10	0	0	10	0	0	10	0	0	11	0	0	11
20	0	0	21	0	0	21	0	0	21	0	0	22	0	0	22
30	0	0	32	0	0	32	0	0	32	0	0	33	0	0	33
40	0	1	3	0	1	3	0	1	3	0	1	4	0	1	4
50	0	1	14	0	1	14	0	1	14	0	1	15	0	1	15
60	0	1	24	0	1	25	0	1	25	0	1	26	0	1	26
70	0	1	35	0	1	36	0	1	36	0	1	37	0	1	37
80	0	2	6	0	2	7	0	2	7	0	2	8	0	2	8
90	0	2	17	0	2	17	0	2	18	0	2	19	0	2	20
100	0	2	28	0	2	28	0	2	29	0	2	30	0	2	31
110	0	2	38	0	2	39	0	3	0	0	3	1	0	3	2
120	0	3	9	0	3	10	0	3	11	0	3	12	0	3	13
130	0	3	20	0	3	21	0	3	22	0	3	23	0	3	24
140	0	3	31	0	3	32	0	3	33	0	3	34	0	3	35
150	1	0	2	1	0	3	1	0	4	1	0	5	1	0	6
160	1	0	12	1	0	14	1	0	15	1	0	16	1	0	17
170	1	0	23	1	0	24	1	0	26	1	0	27	1	0	29
180	1	0	34	1	0	35	1	0	37	1	0	38	1	1	0
190	1	1	5	1	1	6	1	1	8	1	1	9	1	1	11
200	1	1	15	1	1	17	1	1	19	1	1	20	1	1	22
210	1	1	26	1	1	28	1	1	30	1	1	31	1	1	33
220	1	1	37	1	1	39	1	2	1	1	2	2	1	2	4
230	1	2	8	1	2	10	1	2	12	1	2	13	1	2	15
240	1	2	19	1	2	21	1	2	23	1	2	24	1	2	26
250	1	2	30	1	2	32	1	2	34	1	2	36	1	2	38
260	1	3	0	1	3	2	1	3	4	1	3	7	1	3	9
270	1	3	11	1	3	13	1	3	15	1	3	18	1	3	20
280	1	3	22	1	3	24	1	3	26	1	3	29	1	3	31
290	1	3	33	1	3	35	1	3	37	2	0	0	2	0	2
300	2	0	3	2	0	6	2	0	8	2	0	11	2	0	13
400	2	2	31	2	2	35	2	2	38	2	3	1	2	3	4
500	3	1	20	3	1	24	3	1	28	3	1	32	3	1	36
600	4	0	8	4	0	13	4	0	18	4	0	22	4	0	26

Digitized by Google

Six Chains and a Half and

Width in Links.	650			655			660			665			670		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
4	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
5	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
6	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
7	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
8	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
9	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
10	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
20	0	0	20	0	0	20	0	0	21	0	0	21	0	0	21
30	0	0	31	0	0	31	0	0	31	0	0	31	0	0	32
40	0	1	1	0	1	1	0	1	2	0	1	2	0	1	2
50	0	1	12	0	1	12	0	1	12	0	1	13	0	1	13
60	0	1	22	0	1	22	0	1	23	0	1	23	0	1	24
70	0	1	32	0	1	33	0	1	33	0	1	34	0	1	35
80	0	2	3	0	2	3	0	2	4	0	2	5	0	2	5
90	0	2	13	0	2	14	0	2	15	0	2	15	0	2	16
100	0	2	24	0	2	24	0	2	25	0	2	26	0	2	27
110	0	2	34	0	2	35	0	2	36	0	2	37	0	2	37
120	0	3	4	0	3	5	0	3	6	0	3	7	0	3	8
130	0	3	15	0	3	16	0	3	17	0	3	18	0	3	19
140	0	3	25	0	3	26	0	3	27	0	3	28	0	3	30
150	0	3	36	0	3	37	0	3	38	0	3	39	1	0	0
160	1	0	6	1	0	7	1	0	8	1	0	10	1	0	11
170	1	0	16	1	0	18	1	0	19	1	0	20	1	0	22
180	1	0	27	1	0	28	1	0	30	1	0	30	1	0	32
190	1	0	37	1	0	39	1	1	0	1	1	1	1	1	3
200	1	1	8	1	1	9	1	1	11	1	1	13	1	1	14
210	1	1	19	1	1	20	1	1	21	1	1	22	1	1	25
220	1	1	29	1	1	30	1	1	32	1	1	33	1	1	35
230	1	2	0	1	2	1	1	2	2	1	2	5	1	2	6
240	1	2	10	1	2	11	1	2	13	1	2	14	1	2	17
250	1	2	20	1	2	22	1	2	24	1	2	26	1	2	28
260	1	2	31	1	2	32	1	2	34	1	2	35	1	2	38
270	1	3	1	1	3	2	1	3	5	1	3	6	1	3	9
280	1	3	12	1	3	13	1	3	15	1	3	18	1	3	20
290	1	3	22	1	3	23	1	3	26	1	3	27	1	3	30
300	1	3	33	1	3	34	1	3	36	1	3	38	2	0	1
400	2	2	17	2	2	19	2	2	22	2	2	26	2	2	28
500	3	1	0	3	1	4	3	1	8	3	1	12	3	1	16
600	3	3	24	3	3	29	3	3	34	3	3	38	4	0	2

Digitized by Google

under Seven Chains.

Width in Links.	675			[illegible]			[illegible]			[illegible]			[illegible]		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	0	0	2	0	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	0	0	3	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	0	0	4	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	0	0	5	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	0	0	6	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	0	0	7	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	0	0	8	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	0	0	9	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	0	0	10	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	0	0	21	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	0	0	32	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
40	0	1	2	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
50	0	1	14	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	0	1	24	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
70	0	1	35	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	0	2	6	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	0	2	17	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	0	2	28	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	0	2	38	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
120	0	3	9	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
130	0	3	20	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
140	0	3	31	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
150	1	0	2	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
160	1	0	12	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
170	1	0	23	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
180	1	0	34	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
190	1	1	5	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
200	1	1	15	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
210	1	1	26	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
220	1	1	37	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
230	1	2	8	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
240	1	2	19	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
250	1	2	31	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
260	1	3	0	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
270	1	3	11	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
280	1	3	22	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
290	1	3	33	1	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
300	2	0	3	2	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
400	2	2	31	3	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
500	3	1	20	4	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
600	4	0	8												

Digitized by Google

Seven Chains and

Width in Links.	700			705			710			715			720		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
4	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
5	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
6	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
7	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
8	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
9	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
10	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
20	0	0	22	0	0	22	0	0	22	0	0	22	0	0	23
30	0	0	33	0	0	33	0	0	34	0	0	34	0	0	34
40	0	1	4	0	1	5	0	1	5	0	1	5	0	1	6
50	0	1	16	0	1	16	0	1	16	0	1	17	0	1	17
60	0	1	27	0	1	27	0	1	28	0	1	28	0	1	29
70	0	1	38	0	1	38	0	1	39	0	2	0	0	2	0
80	0	2	9	0	2	9	0	2	10	0	2	11	0	2	12
90	0	2	20	0	2	21	0	2	22	0	2	22	0	2	23
100	0	2	32	0	2	32	0	2	33	0	2	34	0	2	36
110	0	3	3	0	3	4	0	3	5	0	3	5	0	3	6
120	0	3	14	0	3	15	0	3	16	0	3	17	0	3	18
130	0	3	25	0	3	26	0	3	27	0	3	28	0	3	29
140	0	3	36	0	3	37	0	3	39	1	0	0	1	0	1
150	1	0	8	1	0	10	1	0	11	1	0	11	1	0	13
160	1	0	19	1	0	20	1	0	23	1	0	23	1	0	24
170	1	0	30	1	0	31	1	0	34	1	0	35	1	0	36
180	1	1	1	1	1	3	1	1	5	1	1	6	1	1	7
190	1	1	12	1	1	15	1	1	17	1	1	18	1	1	19
200	1	1	24	1	1	26	1	1	28	1	1	29	1	1	30
210	1	1	35	1	1	37	1	1	39	1	2	0	1	2	2
220	1	2	6	1	2	9	1	2	11	1	2	11	1	2	14
230	1	2	17	1	2	20	1	2	22	1	2	23	1	2	25
240	1	2	28	1	2	30	1	2	34	1	2	35	1	2	37
250	1	3	0	1	3	2	1	3	4	1	3	6	1	3	8
260	1	3	11	1	3	14	1	3	16	1	3	17	1	3	20
270	1	3	22	1	3	25	1	3	28	1	3	29	1	3	30
280	1	3	33	1	3	36	1	3	39	2	0	0	2	0	3
290	2	0	4	2	0	8	2	0	10	2	0	11	2	0	13
300	2	0	16	2	0	19	2	0	22	2	0	23	2	0	26
400	2	3	8	2	3	12	2	3	15	2	3	17	2	3	21
500	3	2	0	3	2	4	3	2	8	3	2	12	3	2	16
600	4	0	32	4	0	37	4	1	2	4	1	6	4	1	11
700	4	3	24	4	3	30	4	3	35	5	0	0	5	0	5

Digitized by Google

under Seven Chains and a Half.

Width in Links.	725			730			735			740			745		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
4	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
5	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
6	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
7	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
8	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
9	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
10	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
20	0	0	23	0	0	23	0	0	23	0	0	23	0	0	23
30	0	0	34	0	0	35	0	0	35	0	0	35	0	0	35
40	0	1	6	0	1	6	0	1	7	0	1	7	0	1	7
50	0	1	18	0	1	18	0	1	18	0	1	19	0	1	19
60	0	1	29	0	1	30	0	1	30	0	1	31	0	1	31
70	0	2	1	0	2	1	0	2	2	0	2	2	0	2	3
80	0	2	12	0	2	13	0	2	14	0	2	14	0	2	15
90	0	2	24	0	2	25	0	2	25	0	2	26	0	2	27
100	0	2	36	0	2	36	0	2	37	0	2	38	0	2	39
110	0	3	7	0	3	8	0	3	9	0	3	9	0	3	11
120	0	3	19	0	3	20	0	3	21	0	3	21	0	3	23
130	0	3	30	0	3	31	0	3	32	0	3	32	0	3	34
140	1	0	2	1	0	3	1	0	4	1	0	6	1	0	6
150	1	0	14	1	0	15	1	0	16	1	0	18	1	0	18
160	1	0	25	1	0	26	1	0	28	1	0	29	1	0	30
170	1	0	37	1	0	38	1	0	39	1	1	0	1	1	2
180	1	1	9	1	1	10	1	1	11	1	1	12	1	1	14
190	1	1	21	1	1	21	1	1	23	1	1	24	1	1	26
200	1	1	33	1	1	33	1	1	35	1	1	36	1	1	38
210	1	2	4	1	2	5	1	2	6	1	2	9	1	2	10
220	1	2	16	1	2	16	1	2	18	1	2	19	1	2	22
230	1	2	27	1	2	28	1	2	30	1	2	31	1	2	34
240	1	2	39	1	3	0	1	3	2	1	3	3	1	3	6
250	1	3	10	1	3	12	1	3	14	1	3	16	1	3	18
260	1	3	22	1	3	23	1	3	25	1	3	28	1	3	29
270	1	3	33	1	3	35	1	3	37	2	0	0	2	0	1
280	2	0	4	2	0	7	2	0	9	2	0	12	2	0	13
290	2	0	16	2	0	18	2	0	20	2	0	22	2	0	25
300	2	0	28	2	0	29	2	0	32	2	0	34	2	0	37
400	2	3	24	2	3	26	2	3	30	2	3	34	2	3	36
500	3	2	20	3	2	24	3	2	28	3	2	32	3	2	36
600	4	1	16	4	1	20	4	1	25	4	1	29	4	1	35
700	5	0	12	5	0	17	5	0	23	5	0	28	5	0	34

Digitized by Google

Seven Chains and a Half and

Width in Links.	750			755			760			765			770		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
4	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
5	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
6	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
7	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
8	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
9	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
10	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
20	0	0	24	0	0	24	0	0	24	0	0	24	0	0	24
30	0	0	36	0	0	36	0	0	36	0	0	36	0	0	36
40	0	1	8	0	1	8	0	1	8	0	1	8	0	1	8
50	0	1	20	0	1	20	0	1	20	0	1	20	0	1	20
60	0	1	32	0	1	32	0	1	32	0	1	32	0	1	34
70	0	2	4	0	2	4	0	2	5	0	2	5	0	2	6
80	0	2	16	0	2	16	0	2	17	0	2	17	0	2	18
90	0	2	28	0	2	28	0	2	29	0	2	30	0	2	30
100	0	3	0	0	3	0	0	3	1	0	3	2	0	3	3
110	0	3	12	0	3	12	0	3	13	0	3	14	0	3	15
120	0	3	24	0	3	24	0	3	25	0	3	26	0	3	27
130	0	3	36	0	3	37	0	3	38	0	3	39	1	0	0
140	1	0	8	1	0	9	1	0	10	1	0	11	1	0	12
150	1	0	20	1	0	21	1	0	22	1	0	23	1	0	24
160	1	0	32	1	0	33	1	0	34	1	0	35	1	0	37
170	1	1	4	1	1	5	1	1	6	1	1	8	1	1	9
180	1	1	16	1	1	17	1	1	18	1	1	20	1	1	21
190	1	1	28	1	1	29	1	1	31	1	1	32	1	1	34
200	1	2	0	1	2	1	1	2	3	1	2	4	1	2	6
210	1	2	12	1	2	13	1	2	15	1	2	17	1	2	18
220	1	2	24	1	2	25	1	2	27	1	2	29	1	2	31
230	1	2	36	1	2	37	1	2	39	1	3	1	1	3	3
240	1	3	8	1	3	9	1	3	11	1	3	13	1	3	15
250	1	3	20	1	3	22	1	3	24	1	3	26	1	3	28
260	1	3	32	1	3	34	1	3	36	1	3	38	2	0	0
270	2	0	4	2	0	6	2	0	8	2	0	10	2	0	12
280	2	0	16	2	0	18	2	0	20	2	0	22	2	0	24
290	2	0	28	2	0	30	2	0	32	2	0	34	2	0	37
300	2	1	0	2	1	2	2	1	4	2	1	7	2	1	9
400	3	0	0	3	0	3	3	0	6	3	0	9	3	0	12
500	3	3	0	3	3	4	3	3	8	3	3	12	3	3	16
600	4	2	0	4	2	4	4	2	9	4	2	14	4	2	19
700	5	1	0	5	1	5	5	1	10	5	1	16	5	1	22

Digitized by Google

under Eight Chains.

Width in Links.	775			780			785			790			795		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
4	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
5	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
6	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
7	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
8	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
9	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
10	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
20	0	0	24	0	0	24	0	0	25	0	0	25	0	0	25
30	0	0	37	0	0	37	0	0	37	0	0	37	0	0	38
40	0	1	9	0	1	9	0	1	10	0	1	10	0	1	10
50	0	1	22	0	1	22	0	1	22	0	1	23	0	1	23
60	0	1	34	0	1	34	0	1	35	0	1	35	0	1	36
70	0	2	6	0	2	7	0	2	7	0	2	8	0	2	9
80	0	2	19	0	2	19	0	2	20	0	2	21	0	2	21
90	0	2	31	0	2	32	0	2	33	0	2	33	0	2	34
100	0	3	4	0	3	4	0	3	5	0	3	6	0	3	7
110	0	3	16	0	3	18	0	3	18	0	3	19	0	3	20
120	0	3	28	0	3	29	0	3	30	0	3	31	0	3	32
130	1	0	1	1	0	2	1	0	3	1	0	4	1	0	5
140	1	0	13	1	0	14	1	0	15	1	0	16	1	0	18
150	1	0	26	1	0	27	1	0	28	1	0	29	1	0	30
160	1	0	38	1	0	39	1	1	0	1	1	2	1	1	3
170	1	1	10	1	1	12	1	1	13	1	1	14	1	1	16
180	1	1	23	1	1	24	1	1	26	1	1	27	1	1	29
190	1	1	35	1	1	37	1	1	38	1	2	0	1	2	1
200	1	2	8	1	2	10	1	2	11	1	2	12	1	2	14
210	1	2	20	1	2	23	1	2	23	1	2	25	1	2	27
220	1	2	32	1	2	35	1	2	36	1	2	38	1	2	39
230	1	3	5	1	3	6	1	3	8	1	3	10	1	3	12
240	1	3	17	1	3	20	1	3	21	1	3	23	1	3	25
250	1	3	30	1	3	32	1	3	34	1	3	36	1	3	38
260	2	0	2	2	0	5	2	0	6	2	0	8	2	0	10
270	2	0	14	2	0	18	2	0	20	2	0	21	2	0	23
280	2	0	27	2	0	30	2	0	32	2	0	33	2	0	36
290	2	0	39	2	1	3	2	1	5	2	1	6	2	1	8
300	2	1	12	2	1	15	2	1	18	2	1	19	2	1	21
400	3	0	16	3	0	20	3	0	23	3	0	25	3	0	29
500	3	3	20	3	3	24	3	3	28	3	3	32	3	3	36
600	4	2	24	4	2	28	4	2	33	4	2	38	4	3	2
700	5	1	28	5	1	35	5	1	39	5	2	4	5	2	9

Digitized by Google

Eight Chains and

Width in Links.	800			805			810			815			820		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
4	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
5	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
6	0	0	7	0	0	7	0	0	7	0	0	8	0	0	8
7	0	0	8	0	0	8	0	0	8	0	0	10	0	0	10
8	0	0	10	0	0	10	0	0	10	0	0	11	0	0	11
9	0	0	11	0	0	11	0	0	11	0	0	12	0	0	12
10	0	0	12	0	0	12	0	0	12	0	0	13	0	0	13
20	0	0	25	0	0	25	0	0	25	0	0	26	0	0	26
30	0	0	38	0	0	38	0	0	38	0	0	39	0	0	39
40	0	1	11	0	1	11	0	1	11	0	1	12	0	1	12
50	0	1	24	0	1	24	0	1	24	0	1	25	0	1	25
60	0	1	36	0	1	37	0	1	37	0	1	38	0	1	38
70	0	2	9	0	2	10	0	2	10	0	2	11	0	2	11
80	0	2	22	0	2	23	0	2	23	0	2	24	0	2	24
90	0	2	35	0	2	35	0	2	36	0	2	37	0	2	38
100	0	3	8	0	3	8	0	3	9	0	3	10	0	3	11
110	0	3	20	0	3	21	0	3	22	0	3	23	0	3	24
120	0	3	33	0	3	34	0	3	35	0	3	36	0	3	37
130	1	0	6	1	0	7	1	0	8	1	0	9	1	0	10
140	1	0	19	1	0	20	1	0	21	1	0	22	1	0	23
150	1	0	32	1	0	33	1	0	34	1	0	35	1	0	36
160	1	1	4	1	1	6	1	1	7	1	1	8	1	1	9
170	1	1	17	1	1	18	1	1	20	1	1	21	1	1	23
180	1	1	30	1	1	31	1	1	33	1	1	34	1	1	36
190	1	2	3	1	2	4	1	2	6	1	2	7	1	2	9
200	1	2	16	1	2	17	1	2	19	1	2	20	1	2	22
210	1	2	28	1	2	30	1	2	32	1	2	33	1	2	35
220	1	3	1	1	3	3	1	3	5	1	3	6	1	3	8
230	1	3	14	1	3	16	1	3	18	1	3	19	1	3	21
240	1	3	27	1	3	29	1	3	31	1	3	32	1	3	34
250	2	0	0	2	0	2	2	0	4	2	0	6	2	0	8
260	2	0	12	2	0	14	2	0	16	2	0	19	2	0	21
270	2	0	25	2	0	27	2	0	29	2	0	33	2	0	34
280	2	0	38	2	1	0	2	1	2	2	1	5	2	1	7
290	2	1	11	2	1	13	2	1	15	2	1	18	2	1	20
300	2	1	24	2	1	26	2	1	28	2	1	31	2	1	33
400	3	0	32	3	0	35	3	0	38	3	1	1	3	1	4
500	4	0	0	4	0	4	4	0	8	4	0	12	4	0	16
600	4	3	8	4	3	12	4	3	18	4	3	22	4	3	26
700	5	2	16	5	2	22	5	2	26	5	2	32	5	2	37
800	6	1	24	6	1	30	6	1	36	6	2	2	6	2	10

Digitized by Google

under Eight Chains and a Half.

Width in Links.	825			830			835			840			845		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
4	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
5	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
6	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
7	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
8	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
9	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
10	0	0	13	0	0	13	0	0	13	0	0	13	0	0	13
20	0	0	26	0	0	26	0	0	26	0	0	26	0	0	27
30	0	0	39	0	0	39	0	1	0	0	1	0	0	1	0
40	0	1	12	0	1	13	0	1	13	0	1	13	0	1	14
50	0	1	26	0	1	26	0	1	26	0	1	27	0	1	27
60	0	1	39	0	1	39	0	2	0	0	2	0	0	2	1
70	0	2	12	0	2	12	0	2	13	0	2	14	0	2	14
80	0	2	25	0	2	26	0	2	26	0	2	27	0	2	28
90	0	2	38	0	2	39	0	3	0	0	3	0	0	3	1
100	0	3	12	0	3	12	0	3	13	0	3	14	0	3	15
110	0	3	25	0	3	26	0	3	26	0	3	27	0	3	29
120	0	3	38	0	3	39	1	0	0	1	0	1	1	0	2
130	1	0	11	1	0	12	1	0	13	1	0	14	1	0	16
140	1	0	24	1	0	25	1	0	27	1	0	28	1	0	29
150	1	0	38	1	0	39	1	1	0	1	1	1	1	1	3
160	1	1	11	1	1	12	1	1	13	1	1	15	1	1	16
170	1	1	24	1	1	25	1	1	27	1	1	28	1	1	30
180	1	1	37	1	1	39	1	2	0	1	2	1	1	2	3
190	1	2	10	1	2	12	1	2	13	1	2	15	1	2	17
200	1	2	24	1	2	25	1	2	27	1	2	28	1	2	31
210	1	2	37	1	2	38	1	3	0	1	3	2	1	3	4
220	1	3	10	1	3	12	1	3	13	1	3	15	1	3	18
230	1	3	23	1	3	25	1	3	27	1	3	29	1	3	31
240	1	3	36	1	3	38	2	0	0	2	0	2	2	0	5
250	2	0	10	2	0	12	2	0	14	2	0	16	2	0	18
260	2	0	23	2	0	25	2	0	27	2	0	29	2	0	32
270	2	0	36	2	0	38	2	1	0	2	1	2	2	1	6
280	2	1	9	2	1	11	2	1	14	2	1	16	2	1	19
290	2	1	22	2	1	25	2	1	27	2	1	29	2	1	33
300	2	1	36	2	1	38	2	2	0	2	2	3	2	2	6
400	3	1	8	3	1	11	3	1	14	3	1	17	3	1	22
500	4	0	20	4	0	24	4	0	28	4	0	32	4	0	36
600	4	3	32	4	3	37	5	0	2	5	0	6	5	0	11
700	5	3	4	5	3	9	5	3	15	5	2	20	5	3	26
800	6	2	16	6	2	22	6	2	28	6	2	34	6	3	1

Digitized by Google

Eight Chains and a Half and

Width in Links.	850			855			860			865			870		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
4	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
5	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
6	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
7	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
8	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
9	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
10	0	0	13	0	0	13	0	0	13	0	0	13	0	0	13
20	0	0	27	0	0	27	0	0	27	0	0	27	0	0	27
30	0	1	0	0	1	1	0	1	1	0	1	1	0	1	1
40	0	1	14	0	1	14	0	1	15	0	1	15	0	1	15
50	0	1	28	0	1	28	0	1	28	0	1	29	0	1	29
60	0	2	1	0	2	2	0	2	2	0	2	3	0	2	3
70	0	2	15	0	2	15	0	2	16	0	2	16	0	2	17
80	0	2	28	0	2	29	0	2	30	0	2	30	0	2	31
90	0	3	2	0	3	3	0	3	3	0	3	4	0	3	5
100	0	3	16	0	3	16	0	3	17	0	3	18	0	3	19
110	0	3	29	0	3	30	0	3	31	0	3	32	0	3	33
120	1	0	3	1	0	4	1	0	5	1	0	6	1	0	7
130	1	0	16	1	0	17	1	0	18	1	0	19	1	0	20
140	1	0	30	1	0	31	1	0	32	1	0	33	1	0	34
150	1	1	4	1	1	5	1	1	6	1	1	7	1	1	8
160	1	1	17	1	1	18	1	1	20	1	1	21	1	1	23
170	1	1	31	1	1	32	1	1	33	1	1	35	1	1	36
180	1	2	4	1	2	6	1	2	7	1	2	9	1	2	10
190	1	2	18	1	2	19	1	2	21	1	2	22	1	2	24
200	1	2	32	1	2	33	1	2	35	1	2	36	1	2	38
210	1	3	5	1	3	7	1	3	8	1	3	10	1	3	12
220	1	3	19	1	3	20	1	3	22	1	3	24	1	3	26
230	1	3	32	1	3	34	1	3	36	1	3	38	2	0	0
240	2	0	6	2	0	8	2	0	10	2	0	12	2	0	14
250	2	0	20	2	0	22	2	0	24	2	0	26	2	0	28
260	2	0	33	2	0	35	2	0	37	2	0	39	2	1	1
270	2	1	7	2	1	9	2	1	11	2	1	13	2	1	15
280	2	1	20	2	1	23	2	1	25	2	1	27	2	1	29
290	2	1	34	2	1	36	2	1	39	2	1	1	2	2	3
300	2	2	8	2	2	10	2	2	12	2	2	15	2	2	17
400	3	1	24	3	1	27	3	1	30	3	1	33	3	1	36
500	4	1	0	4	1	4	4	1	8	4	1	12	4	1	16
600	5	0	16	5	0	20	5	0	25	5	0	30	5	0	35
700	5	3	32	5	3	37	6	0	2	6	0	8	6	0	14
800	6	3	8	6	3	14	6	3	20	6	3	26	6	3	32

Digitized by Google

under Nine Chains.

Width in Links.	875			880			885			890			895		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
4	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
5	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
6	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
7	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
8	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
9	0	0	13	0	0	13	0	0	13	0	0	13	0	0	13
10	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
20	0	0	28	0	0	28	0	0	28	0	0	28	0	0	28
30	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2
40	0	1	16	0	1	16	0	1	16	0	1	16	0	1	17
50	0	1	30	0	1	30	0	1	30	0	1	31	0	1	31
60	0	2	4	0	2	4	0	2	4	0	2	5	0	2	5
70	0	2	18	0	2	18	0	2	19	0	2	19	0	2	20
80	0	2	32	0	2	32	0	2	32	0	2	33	0	2	34
90	0	3	6	0	3	6	0	3	7	0	3	8	0	3	8
100	0	3	20	0	3	20	0	3	21	0	3	22	0	3	23
110	0	3	34	0	3	34	0	3	35	0	3	36	0	3	37
120	1	0	8	1	0	8	1	0	9	1	0	10	1	0	11
130	1	0	22	1	0	23	1	0	24	1	0	25	1	0	26
140	1	0	36	1	0	37	1	0	38	1	0	39	1	1	0
150	1	1	10	1	1	11	1	1	12	1	1	13	1	1	14
160	1	1	24	1	1	25	1	1	26	1	1	27	1	1	29
170	1	1	38	1	1	39	1	2	0	1	2	2	1	2	3
180	1	2	12	1	2	13	1	2	14	1	2	16	1	2	17
190	1	2	26	1	2	27	1	2	29	1	2	30	1	2	32
200	1	3	0	1	3	1	1	3	3	1	3	4	1	3	6
210	1	3	14	1	3	15	1	3	17	1	3	19	1	3	20
220	1	3	28	1	3	29	1	3	31	1	3	33	1	3	35
230	2	0	2	2	0	3	2	0	5	2	0	7	2	0	9
240	2	0	16	2	0	17	2	0	19	2	0	21	2	0	23
250	2	0	30	2	0	32	2	0	34	2	0	36	2	0	38
260	2	1	4	2	1	6	2	1	8	2	1	10	2	1	12
270	2	1	18	2	1	20	2	1	22	2	1	24	2	1	26
280	2	1	32	2	1	34	2	1	36	2	1	38	2	2	0
290	2	2	6	2	2	8	2	2	10	2	2	12	2	2	15
300	2	2	20	2	2	22	2	2	24	2	2	27	2	2	29
400	3	2	0	3	2	3	3	2	6	3	2	9	3	2	12
500	4	1	20	4	1	24	4	1	28	4	1	32	4	1	36
600	5	1	0	5	1	4	5	1	9	5	1	14	5	1	18
700	6	0	20	6	0	26	6	0	30	6	0	36	6	1	1
800	7	0	0	7	0	6	7	0	13	7	0	18	7	0	26

Digitized by Google

Nine Chains and

Width in Links.	900			905			910			915			920		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
4	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
5	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
6	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
7	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
8	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
9	0	0	13	0	0	13	0	0	13	0	0	13	0	0	13
10	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
20	0	0	28	0	0	28	0	0	29	0	0	29	0	0	29
30	0	1	3	0	1	3	0	1	3	0	1	3	0	1	3
40	0	1	17	0	1	17	0	1	18	0	1	18	0	1	18
50	0	1	32	0	1	32	0	1	32	0	1	33	0	1	33
60	0	2	6	0	2	6	0	2	7	0	2	7	0	2	7
70	0	2	20	0	2	21	0	2	21	0	2	22	0	2	22
80	0	2	35	0	2	35	0	2	36	0	2	37	0	2	37
90	0	3	9	0	3	10	0	3	11	0	3	11	0	3	12
100	0	3	24	0	3	24	0	3	25	0	3	26	0	3	26
110	0	3	38	0	3	39	1	0	0	1	0	1	1	0	1
120	1	0	12	1	0	13	1	0	14	1	0	15	1	0	16
130	1	0	27	1	0	28	1	0	29	1	0	30	1	0	30
140	1	1	1	1	1	2	1	1	3	1	1	4	1	1	5
150	1	1	16	1	1	17	1	1	18	1	1	19	1	1	20
160	1	1	30	1	1	31	1	1	33	1	1	34	1	1	35
170	1	2	4	1	2	6	1	2	7	1	2	8	1	2	9
180	1	2	19	1	2	20	1	2	22	1	2	23	1	2	24
190	1	2	33	1	2	35	1	2	36	1	2	38	1	2	39
200	1	3	8	1	3	9	1	3	11	1	3	12	1	3	13
210	1	3	22	1	3	24	1	3	25	1	3	27	1	3	28
220	1	3	36	1	3	38	2	0	0	2	0	2	2	0	3
230	2	0	11	2	0	13	2	0	14	2	0	16	2	0	18
240	2	0	25	2	0	27	2	0	29	2	0	31	2	0	32
250	2	1	0	2	1	2	2	1	4	2	1	6	2	1	8
260	2	1	14	2	1	16	2	1	18	2	1	20	2	1	22
270	2	1	28	2	1	30	2	1	33	2	1	35	2	1	36
280	2	2	3	2	2	5	2	2	7	2	2	9	2	2	11
290	2	2	17	2	2	19	2	2	22	2	2	24	2	2	26
300	2	2	32	2	2	34	2	2	36	2	2	39	2	3	1
400	3	2	16	3	2	19	3	2	22	3	2	25	3	2	29
500	4	2	0	4	2	4	4	2	8	4	2	12	4	2	16
600	5	1	24	5	1	28	5	1	34	5	1	38	5	2	2
700	6	1	8	6	1	14	6	1	19	6	1	24	6	1	30
800	7	0	32	7	0	38	7	1	4	7	1	10	7	1	18
900	8	0	16	8	0	22	8	0	28	8	0	36	8	1	3

Digitized by Google

under Nine Chains and a Half.

Width in Links.	925			930			935			940			945		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	3	0	0	3	0	0	3	0	0	4	0	0	4
4	0	0	5	0	0	5	0	0	5	0	0	6	0	0	6
5	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
6	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
7	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
8	0	0	11	0	0	11	0	0	11	0	0	12	0	0	12
9	0	0	13	0	0	13	0	0	13	0	0	14	0	0	14
10	0	0	14	0	0	14	0	0	14	0	0	15	0	0	15
20	0	0	29	0	0	29	0	0	29	0	0	30	0	0	30
30	0	1	4	0	1	4	0	1	4	0	1	5	0	1	5
40	0	1	19	0	1	19	0	1	19	0	1	20	0	1	20
50	0	1	34	0	1	34	0	1	34	0	1	35	0	1	35
60	0	2	8	0	2	9	0	2	9	0	2	10	0	2	10
70	0	2	23	0	2	24	0	2	24	0	2	25	0	2	25
80	0	2	38	0	2	39	0	2	39	0	3	0	0	3	0
90	0	3	13	0	3	13	0	3	14	0	3	15	0	3	16
100	0	3	28	0	3	28	0	3	29	0	3	30	0	3	31
110	1	0	2	1	0	3	1	0	4	1	0	5	1	0	6
120	1	0	17	1	0	18	1	0	19	1	0	20	1	0	21
130	1	0	32	1	0	33	1	0	34	1	0	35	1	0	36
140	1	1	7	1	1	8	1	1	9	1	1	10	1	1	11
150	1	1	22	1	1	23	1	1	24	1	1	25	1	1	26
160	1	1	36	1	1	38	1	1	39	1	2	0	1	2	1
170	1	2	11	1	2	12	1	2	14	1	2	15	1	2	17
180	1	2	26	1	2	27	1	2	29	1	2	30	1	2	32
190	1	3	1	1	3	2	1	3	4	1	3	5	1	3	7
200	1	3	16	1	3	17	1	3	19	1	3	20	1	3	22
210	1	3	30	1	3	32	1	3	34	1	3	35	1	3	37
220	2	0	5	2	0	7	2	0	9	2	0	10	2	0	12
230	2	0	20	2	0	22	2	0	24	2	0	25	2	0	27
240	2	0	35	2	0	37	2	0	39	2	1	0	2	1	2
250	2	1	10	2	1	12	2	1	14	2	1	16	2	1	18
260	2	1	24	2	1	26	2	1	28	2	1	31	2	1	33
270	2	1	39	2	2	1	2	2	3	2	2	6	2	2	8
280	2	2	14	2	2	16	2	2	18	2	2	21	2	2	23
290	2	2	29	2	2	31	2	2	33	2	2	36	2	2	38
300	2	3	4	2	3	6	2	3	8	2	3	11	2	3	13
400	3	2	32	3	2	35	3	2	38	3	3	1	3	3	4
500	4	2	20	4	2	24	4	2	28	4	2	32	4	2	36
600	5	2	8	5	2	12	5	2	17	5	2	22	5	2	27
700	6	1	36	6	2	2	6	2	6	6	2	12	6	2	18
800	7	1	24	7	1	30	7	1	36	7	2	2	7	2	10
900	8	1	12	8	1	18	8	1	24	8	1	33	8	2	1

Digitized by Google

Nine Chains and a Half and

Width in Links.	950			955			960			965			970		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
4	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
5	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
6	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
7	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
8	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
9	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
10	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
20	0	0	30	0	0	30	0	0	30	0	0	30	0	0	30
30	0	1	5	0	1	5	0	1	6	0	1	6	0	1	6
40	0	1	20	0	1	21	0	1	21	0	1	21	0	1	21
50	0	1	36	0	1	36	0	1	36	0	1	37	0	1	37
60	0	2	11	0	2	11	0	2	12	0	2	12	0	2	12
70	0	2	26	0	2	26	0	2	27	0	2	28	0	2	28
80	0	3	1	0	3	2	0	3	2	0	3	3	0	3	4
90	0	3	16	0	3	17	0	3	18	0	3	18	0	3	19
100	0	3	32	0	3	32	0	3	33	0	3	34	0	3	35
110	1	0	7	1	0	8	1	0	8	1	0	9	1	0	10
120	1	0	22	1	0	23	1	0	24	1	0	25	1	0	26
130	1	0	37	1	0	38	1	0	39	1	1	0	1	1	1
140	1	1	12	1	1	13	1	1	15	1	1	16	1	1	17
150	1	1	28	1	1	29	1	1	30	1	1	31	1	1	32
160	1	2	3	1	2	4	1	2	5	1	2	7	1	2	8
170	1	2	18	1	2	19	1	2	21	1	2	22	1	2	23
180	1	2	33	1	2	35	1	2	36	1	2	37	1	2	39
190	1	3	8	1	3	10	1	3	11	1	3	13	1	3	14
200	1	3	24	1	3	25	1	3	27	1	3	28	1	3	30
210	1	3	39	2	0	0	2	0	2	2	0	4	2	0	5
220	2	0	14	2	0	16	2	0	17	2	0	19	2	0	21
230	2	0	29	2	0	31	2	0	33	2	0	35	2	0	36
240	2	1	4	2	1	6	2	1	8	2	1	10	2	1	12
250	2	1	20	2	1	22	2	1	24	2	1	26	2	1	28
260	2	1	35	2	1	37	2	1	39	2	2	1	2	2	3
270	2	2	10	2	2	12	2	2	14	2	2	16	2	2	18
280	2	2	25	2	2	27	2	2	30	2	2	32	2	2	34
290	2	3	0	2	3	3	2	3	5	2	3	7	2	3	10
300	2	3	16	2	3	18	2	3	20	2	3	23	2	3	25
400	3	3	8	3	3	11	3	3	14	3	3	17	3	3	20
500	4	3	0	4	3	4	4	3	8	4	3	12	4	3	15
600	5	2	32	5	2	36	5	3	2	5	3	6	5	3	10
700	6	2	24	6	2	30	6	2	35	6	3	0	6	3	5
800	7	2	16	7	2	22	7	2	28	7	2	34	7	3	2
900	8	2	8	8	2	15	8	2	20	8	2	29	8	2	35

Digitized by Google

under Ten Chains.

Width in Links.	975			980			985			990			995		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
4	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
5	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
6	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
7	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
8	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
9	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
10	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
20	0	0	31	0	0	31	0	0	31	0	0	31	0	0	31
30	0	1	6	0	1	7	0	1	7	0	1	7	0	1	7
40	0	1	22	0	1	22	0	1	23	0	1	23	0	1	23
50	0	1	38	0	1	38	0	1	38	0	1	39	0	1	39
60	0	2	13	0	2	14	0	2	14	0	2	15	0	2	15
70	0	2	29	0	2	29	0	2	30	0	2	30	0	2	31
80	0	3	4	0	3	5	0	3	6	0	3	6	0	3	7
90	0	3	20	0	3	21	0	3	21	0	3	22	0	3	23
100	0	3	36	0	3	36	0	3	37	0	3	38	0	3	39
110	1	0	11	1	0	12	1	0	13	1	0	14	1	0	15
120	1	0	27	1	0	28	1	0	29	1	0	30	1	0	31
130	1	1	2	1	1	3	1	1	4	1	1	5	1	1	6
140	1	1	18	1	1	19	1	1	20	1	1	21	1	1	22
150	1	1	34	1	1	35	1	1	36	1	1	37	1	1	38
160	1	2	9	1	2	10	1	2	12	1	2	13	1	2	14
170	1	2	25	1	2	26	1	2	27	1	2	29	1	2	30
180	1	3	0	1	3	2	1	3	3	1	3	5	1	3	6
190	1	3	16	1	3	17	1	3	19	1	3	20	1	3	22
200	1	3	32	1	3	33	1	3	35	1	3	36	1	3	38
210	2	0	7	2	0	9	2	0	10	2	0	12	2	0	14
220	2	0	23	2	0	24	2	0	26	2	0	28	2	0	30
230	2	0	38	2	1	0	2	1	2	2	1	4	2	1	6
240	2	1	14	2	1	16	2	1	18	2	1	20	2	1	22
250	2	1	30	2	1	32	2	1	34	2	1	36	2	1	38
260	2	2	5	2	2	7	2	2	9	2	2	11	2	2	13
270	2	2	21	2	2	23	2	2	25	2	2	27	2	2	29
280	2	2	36	2	2	39	2	3	1	2	3	3	2	3	5
290	2	3	12	2	3	14	2	3	17	2	3	19	2	3	21
300	2	3	28	2	3	30	2	3	32	2	3	35	2	3	37
400	3	3	24	3	3	27	3	3	30	3	3	33	3	3	36
500	4	3	20	4	3	24	4	3	28	4	3	32	4	3	36
600	5	3	16	5	3	20	5	3	26	5	3	30	5	3	35
700	6	3	12	6	3	16	6	3	21	6	3	27	6	3	33
800	7	3	8	7	3	14	7	3	20	7	3	26	7	3	34
900	8	3	4	8	3	10	8	3	16	8	3	25	8	3	31

Digitized by Google

Ten Chains and

Width in Links.	1000			1005			1010			1015			1020		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
3	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
4	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
5	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
6	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
7	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
8	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
9	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
10	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
20	0	0	32	0	0	32	0	0	32	0	0	32	0	0	32
30	0	1	8	0	1	8	0	1	8	0	1	8	0	1	8
40	0	1	24	0	1	24	0	1	24	0	1	24	0	1	25
50	0	2	0	0	2	0	0	2	0	0	2	1	0	2	1
60	0	2	16	0	2	16	0	2	16	0	2	17	0	2	17
70	0	2	32	0	2	32	0	2	33	0	2	33	0	2	34
80	0	3	8	0	3	8	0	3	9	0	3	9	0	3	10
90	0	3	24	0	3	24	0	3	25	0	3	26	0	3	26
100	1	0	0	1	0	0	1	0	1	1	0	2	1	0	3
110	1	0	16	1	0	16	1	0	17	1	0	18	1	0	19
120	1	0	32	1	0	32	1	0	33	1	0	34	1	0	35
130	1	1	8	1	1	9	1	1	10	1	1	11	1	1	12
140	1	1	24	1	1	25	1	1	26	1	1	27	1	1	28
150	1	2	0	1	2	1	1	2	2	1	2	3	1	2	4
160	1	2	16	1	2	17	1	2	18	1	2	19	1	2	21
170	1	2	32	1	2	33	1	2	34	1	2	36	1	2	37
180	1	3	8	1	3	9	1	3	10	1	3	12	1	3	13
190	1	3	24	1	3	25	1	3	27	1	3	28	1	3	30
200	2	0	0	2	0	1	2	0	3	2	0	4	2	0	6
210	2	0	16	2	0	17	2	0	19	2	0	21	2	0	22
220	2	0	32	2	0	33	2	0	36	2	0	37	2	0	39
230	2	1	8	2	1	9	2	1	12	2	1	13	2	1	15
240	2	1	24	2	1	25	2	1	28	2	1	29	2	1	31
250	2	2	0	2	2	2	2	2	4	2	2	6	2	2	8
260	2	2	16	2	2	18	2	2	21	2	2	22	2	2	24
270	2	2	32	2	2	34	2	2	37	2	2	38	2	3	0
280	2	3	8	2	3	10	2	3	13	2	3	14	2	3	17
290	2	3	24	2	3	26	2	3	29	2	3	30	2	3	33
300	3	0	0	3	0	2	3	0	5	3	0	7	3	0	10
400	4	0	0	4	0	3	4	0	6	4	0	9	4	0	13
500	5	0	0	5	0	4	5	0	8	5	0	12	5	0	16
600	6	0	0	6	0	4	6	0	9	6	0	14	6	0	19
700	7	0	0	7	0	6	7	0	11	7	0	16	7	0	23
800	8	0	0	8	0	6	8	0	12	8	0	19	8	0	26
900	9	0	0	9	0	7	9	0	15	9	0	21	9	0	30
1000	10	0	0	10	0	8	10	0	16	10	0	24	10	0	32

Digitized by Google

under Ten Chains and a Half.

Width in Links.	1025			1030			1035			1040			1045		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
3	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
4	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
5	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
6	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
7	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
8	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
9	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
10	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
20	0	0	32	0	0	32	0	0	33	0	0	33	0	0	33
30	0	1	9	0	1	9	0	1	9	0	1	9	0	1	10
40	0	1	25	0	1	25	0	1	26	0	1	26	0	1	26
50	0	2	2	0	2	2	0	2	2	0	2	3	0	2	3
60	0	2	18	0	2	18	0	2	19	0	2	19	0	2	20
70	0	2	34	0	2	35	0	2	35	0	2	36	0	2	37
80	0	3	11	0	3	11	0	3	12	0	3	13	0	3	13
90	0	3	27	0	3	28	0	3	29	0	3	29	0	3	30
100	1	0	4	1	0	4	1	0	5	1	0	6	1	0	7
110	1	0	20	1	0	21	1	0	22	1	0	23	1	0	24
120	1	0	36	1	0	37	1	0	38	1	0	39	1	1	0
130	1	1	13	1	1	14	1	1	15	1	1	16	1	1	17
140	1	1	30	1	1	30	1	1	31	1	1	32	1	1	34
150	1	2	6	1	2	7	1	2	8	1	2	9	1	2	10
160	1	2	22	1	2	23	1	2	24	1	2	26	1	2	27
170	1	2	38	1	3	0	1	3	1	1	3	2	1	3	4
180	1	3	15	1	3	16	1	3	18	1	3	19	1	3	21
190	1	3	31	1	3	33	1	3	34	1	3	36	1	3	37
200	2	0	8	2	0	9	2	0	11	2	0	12	2	0	14
210	2	0	24	2	0	26	2	0	27	2	0	29	2	0	31
220	2	1	0	2	1	2	2	1	4	2	1	6	2	1	7
230	2	1	17	2	1	19	2	1	20	2	1	22	2	1	24
240	2	1	33	2	1	35	2	1	37	2	1	39	2	2	1
250	2	2	10	2	2	12	2	2	14	2	2	16	2	2	18
260	2	2	26	2	2	28	2	2	30	2	2	32	2	2	34
270	2	3	2	2	3	4	2	3	7	2	3	9	2	3	11
280	2	3	19	2	3	21	2	3	23	2	3	25	2	3	28
290	2	3	35	2	3	37	3	0	0	3	0	2	3	0	4
300	3	0	12	3	0	14	3	0	16	3	0	19	3	0	21
400	4	0	16	4	0	19	4	0	22	4	0	25	4	0	28
500	5	0	20	5	0	24	5	0	28	5	0	32	5	0	36
600	6	0	24	6	0	28	6	0	33	6	0	38	6	1	3
700	7	0	28	7	0	33	7	0	39	7	1	4	7	1	10
800	8	0	32	8	0	38	8	1	4	8	1	11	8	1	17
900	9	0	36	9	1	3	9	1	9	9	1	17	9	1	24
1000	10	1	0	10	1	8	10	1	16	10	1	24	10	1	32

Digitized by Google

Ten Chains and a Half and

Width in Links.	1050			1055			1060			1065			1070		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
3	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
4	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
5	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
6	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
7	0	0	11	0	0	11	0	0	11	0	0	11	0	0	12
8	0	0	12	0	0	14	0	0	14	0	0	14	0	0	14
9	0	0	14	0	0	14	0	0	14	0	0	14	0	0	16
10	0	0	16	0	0	16	0	0	16	0	0	17	0	0	17
20	0	0	33	0	0	33	0	0	33	0	0	34	0	0	34
30	0	1	10	0	1	10	0	1	10	0	1	11	0	1	11
40	0	1	27	0	1	27	0	1	27	0	1	28	0	1	28
50	0	2	4	0	2	4	0	2	4	0	2	5	0	2	5
60	0	2	21	0	2	21	0	2	21	0	2	22	0	2	22
70	0	2	37	0	2	38	0	2	38	0	2	39	0	2	39
80	0	3	14	0	3	15	0	3	15	0	3	16	0	3	16
90	0	3	31	0	3	31	0	3	32	0	3	33	0	3	34
100	1	0	8	1	0	8	1	0	9	1	0	10	1	0	11
110	1	0	25	1	0	25	1	0	26	1	0	27	1	0	28
120	1	1	1	1	1	2	1	1	3	1	1	4	1	1	5
130	1	1	18	1	1	19	1	1	20	1	1	21	1	1	22
140	1	1	35	1	1	36	1	1	37	1	1	38	1	1	39
150	1	2	12	1	2	13	1	2	14	1	2	15	1	2	16
160	1	2	29	1	2	30	1	2	31	1	2	32	1	2	33
170	1	3	5	1	3	6	1	3	8	1	3	9	1	3	11
180	1	3	22	1	3	23	1	3	25	1	3	26	1	3	28
190	1	3	39	2	0	0	2	0	2	2	0	3	2	0	5
200	2	0	16	2	0	17	2	0	19	2	0	20	2	0	22
210	2	0	33	2	0	34	2	0	36	2	0	37	2	0	39
220	2	1	9	2	1	11	2	1	13	2	1	14	2	1	16
230	2	1	26	2	1	28	2	1	30	2	1	31	2	1	33
240	2	2	3	2	2	5	2	2	7	2	2	8	2	2	10
250	2	2	20	2	2	22	2	2	24	2	2	26	2	2	28
260	2	2	37	2	2	38	2	3	1	2	3	3	2	3	5
270	2	3	13	2	3	15	2	3	17	2	3	20	2	3	22
280	2	3	30	2	3	32	2	3	34	2	3	37	2	3	39
290	3	0	7	3	0	9	3	0	11	3	0	14	3	0	16
300	3	0	24	3	0	26	3	0	28	3	0	31	3	0	33
400	4	0	33	4	0	35	4	0	38	4	1	2	4	1	5
500	5	1	0	5	1	4	5	1	8	5	1	12	5	1	16
600	6	1	9	6	1	12	6	1	17	6	1	22	6	1	27
700	7	1	17	7	1	22	7	1	27	7	1	32	7	1	38
800	8	1	25	8	1	29	8	1	36	8	2	3	8	2	9
900	9	1	33	9	1	39	9	2	6	9	2	13	9	2	20
1000	10	2	0	10	2	8	10	2	16	10	2	24	10	2	32

Digitized by Google

under Eleven Chains.

Width in Links.	1075			1080			1085			1090			1095		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
3	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
4	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
5	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
6	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
7	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
8	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
9	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
10	0	0	17	0	0	17	0	0	17	0	0	17	0	0	17
20	0	0	34	0	0	34	0	0	34	0	0	34	0	0	35
30	0	1	11	0	1	11	0	1	12	0	1	12	0	1	12
40	0	1	28	0	1	29	0	1	29	0	1	29	0	1	30
50	0	2	6	0	2	6	0	2	6	0	2	7	0	2	7
60	0	2	23	0	2	23	0	2	24	0	2	24	0	2	25
70	0	3	0	0	3	0	0	3	1	0	3	2	0	3	2
80	0	3	17	0	3	18	0	3	18	0	3	19	0	3	20
90	0	3	34	0	3	35	0	3	36	0	3	36	0	3	37
100	1	0	12	1	0	12	1	0	13	1	0	14	1	0	15
110	1	0	29	1	0	30	1	0	30	1	0	31	1	0	32
120	1	1	6	1	1	7	1	1	8	1	1	9	1	1	10
130	1	1	23	1	1	24	1	1	25	1	1	26	1	1	27
140	1	2	0	1	2	1	1	2	3	1	2	4	1	2	5
150	1	2	18	1	2	19	1	2	20	1	2	21	1	2	22
160	1	2	35	1	2	36	1	2	37	1	2	39	1	3	0
170	1	3	12	1	3	18	1	3	15	1	3	16	1	3	17
180	1	3	29	1	3	31	1	3	32	1	3	33	1	3	35
190	2	0	6	2	0	8	2	0	9	2	0	11	2	0	12
200	2	0	24	2	0	25	2	0	27	2	0	28	2	0	30
210	2	1	1	2	1	2	2	1	4	2	1	6	2	1	7
220	2	1	18	2	1	20	2	1	21	2	1	23	2	1	25
230	2	1	35	2	1	37	2	1	39	2	2	1	2	2	2
240	2	2	12	2	2	14	2	2	16	2	2	18	2	2	20
250	2	2	30	2	2	32	2	2	34	2	2	36	2	2	38
260	2	3	7	2	3	9	2	3	11	2	3	13	2	3	15
270	2	3	24	2	3	26	2	3	28	2	3	30	2	3	33
280	3	0	1	3	0	3	3	0	6	3	0	8	3	0	10
290	3	0	18	3	0	21	3	0	23	3	0	25	3	0	28
300	3	0	36	3	0	38	3	1	0	3	1	3	3	1	5
400	4	1	8	4	1	11	4	1	14	4	1	17	4	1	20
500	5	1	20	5	1	24	5	1	28	5	1	32	5	1	36
600	6	1	32	6	1	36	6	2	1	6	2	6	6	2	11
700	7	2	4	7	2	9	7	2	16	7	2	20	7	2	26
800	8	2	16	8	2	22	8	2	28	8	2	35	8	3	1
900	9	2	28	9	2	35	9	3	2	9	3	9	9	3	16
1000	10	3	0	10	3	8	10	3	16	10	3	24	10	3	32

Digitized by Google

Eleven Chains and

Width in Links.	1100			1105			1110			1115			1120		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
3	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
4	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
5	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
6	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
7	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
8	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
9	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
10	0	0	17	0	0	17	0	0	17	0	0	17	0	0	17
20	0	0	35	0	0	35	0	0	35	0	0	35	0	0	35
30	0	1	12	0	1	13	0	1	13	0	1	13	0	1	13
40	0	1	30	0	1	30	0	1	31	0	1	31	0	1	31
50	0	2	8	0	2	8	0	2	8	0	2	9	0	2	9
60	0	2	25	0	2	26	0	2	26	0	2	27	0	2	27
70	0	3	3	0	3	3	0	3	4	0	3	4	0	3	5
80	0	3	20	0	3	21	0	3	22	0	3	22	0	3	23
90	0	3	38	0	3	39	0	3	39	1	0	0	1	0	1
100	1	0	16	1	0	16	1	0	17	1	0	18	1	0	19
110	1	0	33	1	0	34	1	0	35	1	0	36	1	0	37
120	1	1	11	1	1	12	1	1	13	1	1	14	1	1	15
130	1	1	28	1	1	29	1	1	30	1	1	31	1	1	32
140	1	2	6	1	2	7	1	2	8	1	2	9	1	2	10
150	1	2	24	1	2	25	1	2	26	1	2	27	1	2	28
160	1	3	1	1	3	2	1	3	4	1	3	5	1	3	6
170	1	3	18	1	3	20	1	3	21	1	3	23	1	3	24
180	1	3	37	1	3	38	1	3	39	2	0	1	2	0	2
190	2	0	13	2	0	15	2	0	17	2	0	18	2	0	20
200	2	0	31	2	0	33	2	0	35	2	0	36	2	0	38
210	2	1	10	2	1	11	2	1	12	2	1	14	2	1	16
220	2	1	26	2	1	28	2	1	30	2	1	32	2	1	34
230	2	2	5	2	2	6	2	2	8	2	2	10	2	2	12
240	2	2	21	2	2	24	2	2	26	2	2	28	2	2	30
250	2	3	0	2	3	2	2	3	4	2	3	6	2	3	8
260	2	3	18	2	3	19	2	3	21	2	3	23	2	3	25
270	2	3	34	2	3	37	2	3	39	3	0	1	3	0	3
280	3	0	13	3	0	15	3	0	17	3	0	19	3	0	21
290	3	0	29	3	0	32	3	0	35	3	0	37	3	0	39
300	3	1	7	3	1	10	3	1	12	3	1	15	3	1	17
400	4	1	24	4	1	27	4	1	30	4	1	33	4	1	36
500	5	2	0	5	2	4	5	2	8	5	2	12	5	2	16
600	6	2	16	6	2	20	6	2	25	6	2	30	6	2	35
700	7	2	32	7	2	37	7	3	3	7	3	8	7	3	14
800	8	3	8	8	3	14	8	3	20	8	3	27	8	3	33
900	9	3	24	9	3	31	9	3	38	10	0	5	10	0	12
1000	11	0	0	11	0	8	11	0	16	11	0	24	11	0	32

Digitized by Google

under Eleven Chains and a Half.

Width in Links.	1125			1130			1135			1140			1145		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
3	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
4	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
5	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
6	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
7	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
8	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
9	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
10	0	0	18	0	0	18	0	0	18	0	0	18	0	0	18
20	0	0	36	0	0	36	0	0	36	0	0	36	0	0	36
30	0	1	14	0	1	14	0	1	14	0	1	14	0	1	14
40	0	1	32	0	1	32	0	1	32	0	1	32	0	1	33
50	0	2	10	0	2	10	0	2	10	0	2	11	0	2	11
60	0	2	28	0	2	28	0	2	29	0	2	29	0	2	29
70	0	3	6	0	3	6	0	3	7	0	3	7	0	3	8
80	0	3	24	0	3	24	0	3	25	0	3	25	0	3	26
90	1	0	2	1	0	2	1	0	3	1	0	4	1	0	4
100	1	0	20	1	0	20	1	0	21	1	0	22	1	0	23
110	1	0	38	1	0	38	1	0	39	1	1	1	1	1	1
120	1	1	16	1	1	16	1	1	17	1	1	18	1	1	19
130	1	1	34	1	1	35	1	1	36	1	1	37	1	1	38
140	1	2	12	1	2	13	1	2	14	1	2	15	1	2	16
150	1	2	30	1	2	31	1	2	32	1	2	33	1	2	34
160	1	3	8	1	3	9	1	3	10	1	3	11	1	3	13
170	1	3	26	1	3	27	1	3	28	1	3	30	1	3	31
180	2	0	4	2	0	5	2	0	6	2	0	8	2	0	9
190	2	0	22	2	0	23	2	0	25	2	0	26	2	0	28
200	2	1	0	2	1	1	2	1	3	2	1	4	2	1	6
210	2	1	18	2	1	19	2	1	21	2	1	23	2	1	24
220	2	1	36	2	1	37	2	1	39	2	2	1		2	3
230	2	2	14	2	2	15	2	2	17	2	2	19	2	2	21
240	2	2	32	2	2	33	2	2	35	2	2	37	2	2	39
250	2	3	10	2	3	12	2	3	14	2	3	16	2	3	18
260	2	3	28	2	3	30	2	3	32	2	3	34	2	3	36
270	3	0	6	3	0	8	3	0	10	3	0	12	3	0	14
280	3	0	24	3	0	26	3	0	28	3	0	30	3	0	32
290	3	1	2	3	1	4	3	1	6	3	1	8	3	1	11
300	3	1	20	3	1	22	3	1	24	3	1	26	3	1	29
400	4	2	0	4	2	3	4	2	6	4	2	9	4	2	13
500	5	2	20	5	2	24	5	2	28	5	2	32	5	2	36
600	6	3	0	6	3	4	6	3	9	6	3	14	6	3	19
700	7	3	20	7	3	25	7	3	31	7	3	36	8	0	2
800	9	0	0	9	0	6	9	0	12	9	0	19	9	0	25
900	10	0	20	10	0	27	10	0	34	10	1	1	10	1	8
1000	11	1	0	11	1	8	11	1	16	11	1	24	11	1	32

Digitized by Google

Eleven Chains and a Half and

Width in Links.	1150			1155			1160			1165			1170		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
3	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
4	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
5	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
6	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
7	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
8	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
9	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
10	0	0	18	0	0	18	0	0	18	0	0	18	0	0	18
20	0	0	36	0	0	36	0	0	37	0	0	37	0	0	37
30	0	1	15	0	1	15	0	1	15	0	1	15	0	1	16
40	0	1	33	0	1	33	0	1	34	0	1	34	0	1	34
50	0	2	12	0	2	12	0	2	12	0	2	13	0	2	13
60	0	2	30	0	2	30	0	2	31	0	2	31	0	2	32
70	0	3	8	0	3	9	0	3	9	0	3	10	0	3	11
80	0	3	27	0	3	27	0	3	28	0	3	29	0	3	29
90	1	0	5	1	0	6	1	0	7	1	0	7	1	0	8
100	1	0	24	1	0	24	1	0	25	1	0	26	1	0	27
110	1	1	2	1	1	3	1	1	4	1	1	5	1	1	5
120	1	1	20	1	1	21	1	1	22	1	1	23	1	1	24
130	1	1	39	1	2	0	1	2	1	1	2	2	1	2	3
140	1	2	17	1	2	18	1	2	19	1	2	20	1	2	22
150	1	2	36	1	2	37	1	2	38	1	2	39	1	3	0
160	1	3	14	1	3	15	1	3	16	1	3	18	1	3	19
170	1	3	32	1	3	34	1	3	35	1	3	36	1	3	38
180	2	0	11	2	0	12	2	0	14	2	0	15	2	0	16
190	2	0	29	2	0	31	2	0	32	2	0	34	2	0	35
200	2	1	8	2	1	9	2	1	11	2	1	12	2	1	14
210	2	1	26	2	1	28	2	1	29	2	1	31	2	1	33
220	2	2	4	2	2	6	2	2	8	2	2	10	2	2	11
230	2	2	23	2	2	24	2	2	26	2	2	28	2	2	30
240	2	3	1	2	3	3	2	3	5	2	3	7	2	3	9
250	2	3	20	2	3	22	2	3	24	2	3	26	2	3	28
260	2	3	38	3	0	0	3	0	2	3	0	4	3	0	6
270	3	0	16	3	0	18	3	0	21	3	0	23	3	0	25
280	3	0	35	3	0	37	3	0	39	3	1	1	3	1	4
290	3	1	13	3	1	15	3	1	18	3	1	20	3	1	22
300	3	1	32	3	1	34	3	1	36	3	1	39	3	2	1
400	4	2	16	4	2	19	4	2	22	4	2	25	4	2	28
500	5	3	0	5	3	4	5	3	8	5	3	12	5	3	16
600	6	3	24	6	3	28	6	3	33	6	3	38	7	0	3
700	8	0	8	8	0	13	8	0	18	8	0	24	8	0	30
800	9	0	32	9	0	38	9	1	4	9	1	11	9	1	17
900	10	1	16	10	1	23	10	1	30	10	1	37	10	2	4
1000	11	2	0	11	2	8	11	2	16	11	2	24	11	2	32

Digitized by Google

under Twelve Chains.

Width in Links.	1175			1180			1185			1190			1195		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
3	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
4	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
5	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
6	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
7	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
8	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
9	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
10	0	0	18	0	0	18	0	0	18	0	0	19	0	0	19
20	0	0	37	0	0	37	0	0	37	0	0	38	0	0	38
30	0	1	16	0	1	16	0	1	16	0	1	17	0	1	17
40	0	1	35	0	1	35	0	1	35	0	1	36	0	1	36
50	0	2	14	0	2	14	0	2	14	0	2	15	0	2	15
60	0	2	32	0	2	33	0	2	33	0	2	34	0	2	34
70	0	3	11	0	3	12	0	3	12	0	3	13	0	3	13
80	0	3	30	0	3	31	0	3	31	0	3	32	0	3	32
90	1	0	9	1	0	9	1	0	10	1	0	11	1	0	12
100	1	0	28	1	0	28	1	0	29	1	0	30	1	0	31
110	1	1	6	1	1	7	1	1	8	1	1	9	1	1	10
120	1	1	25	1	1	26	1	1	27	1	1	28	1	1	29
130	1	2	4	1	2	5	1	2	6	1	2	7	1	2	8
140	1	2	23	1	2	24	1	2	25	1	2	26	1	2	27
150	1	3	2	1	3	3	1	3	4	1	3	5	1	3	6
160	1	3	20	1	3	22	1	3	23	1	3	24	1	3	25
170	1	3	39	2	0	0	2	0	2	2	0	3	2	0	5
180	2	0	18	2	0	19	2	0	21	2	0	22	2	0	24
190	2	0	37	2	0	38	2	1	0	2	1	1	2	1	3
200	2	1	16	2	1	17	2	1	19	2	1	20	2	1	22
210	2	1	34	2	1	36	2	1	38	2	1	39	2	2	3
220	2	2	13	2	2	15	2	2	17	2	2	19	2	2	22
230	2	2	32	2	2	34	2	2	36	2	2	38	2	3	1
240	2	3	11	2	3	13	2	3	15	2	3	17	2	3	20
250	2	3	30	2	3	32	2	3	34	2	3	36	2	3	38
260	3	0	8	3	0	10	3	0	12	3	0	15	3	0	18
270	3	0	27	3	0	29	3	0	31	3	0	34	3	0	36
280	3	1	6	3	1	8	3	1	10	3	1	13	3	1	15
290	3	1	25	3	1	27	3	1	29	3	1	32	3	1	34
300	3	2	4	3	2	6	3	2	8	3	2	11	3	2	14
400	4	2	32	4	2	35	4	2	38	4	3	2	4	3	4
500	5	3	20	5	3	24	5	3	28	5	3	32	5	3	36
600	7	0	8	7	0	12	7	0	17	7	0	23	7	0	27
700	8	0	36	8	1	1	8	1	7	8	1	13	8	1	18
800	9	1	24	9	1	30	9	1	36	9	2	4	9	2	9
900	10	2	12	10	2	19	10	2	26	10	2	34	10	3	0
1000	11	3	0	11	3	8	11	3	16	11	3	24	11	3	32

Digitized by Google

Twelve Chains and

Width in Links.	1200			1205			1210			1215			1220		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
3	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
4	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
5	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
6	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
7	0	0	13	0	0	13	0	0	14	0	0	14	0	0	14
8	0	0	14	0	0	14	0	0	14	0	0	16	0	0	16
9	0	0	16	0	0	16	0	0	16	0	0	16	0	0	18
10	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
20	0	0	38	0	0	38	0	0	38	0	0	38	0	0	39
30	0	1	17	0	1	17	0	1	18	0	1	18	0	1	18
40	0	1	36	0	1	37	0	1	37	0	1	37	0	1	38
50	0	2	16	0	2	16	0	2	16	0	2	17	0	2	17
60	0	2	35	0	2	35	0	2	36	0	2	36	0	2	37
70	0	3	14	0	3	14	0	3	15	0	3	16	0	3	16
80	0	3	33	0	3	34	0	3	34	0	3	35	0	3	36
90	1	0	12	1	0	13	1	0	14	1	0	14	1	0	15
100	1	0	32	1	0	32	1	0	33	1	0	34	1	0	35
110	1	1	11	1	1	11	1	1	12	1	1	13	1	1	14
120	1	1	30	1	1	31	1	1	32	1	1	33	1	1	34
130	1	2	9	1	2	10	1	2	11	1	2	12	1	2	13
140	1	2	28	1	2	29	1	2	30	1	2	31	1	2	32
150	1	3	8	1	3	9	1	3	10	1	3	11	1	3	12
160	1	3	27	1	3	28	1	3	29	1	3	31	1	3	32
170	2	0	6	2	0	7	2	0	9	2	0	10	2	0	11
180	2	0	25	2	0	27	2	0	28	2	0	29	2	0	31
190	2	1	4	2	1	6	2	1	7	2	1	9	2	1	10
200	2	1	24	2	1	25	2	1	27	2	1	28	2	1	30
210	2	2	3	2	2	4	2	2	6	2	2	8	2	2	9
220	2	2	22	2	2	24	2	2	25	2	2	27	2	2	29
230	2	3	1	2	3	3	2	3	5	2	3	7	2	3	8
240	2	3	20	2	3	22	2	3	24	2	3	26	2	3	28
250	3	0	0	3	0	2	3	0	4	3	0	6	3	0	8
260	3	0	19	3	0	21	3	0	23	3	0	25	3	0	27
270	3	0	38	3	1	0	3	1	2	3	1	4	3	1	7
280	3	1	17	3	1	19	3	1	22	3	1	24	3	1	26
290	3	1	36	3	1	39	3	2	1	3	2	3	3	2	6
300	3	2	16	3	2	18	3	2	20	3	2	23	3	2	25
400	4	3	8	4	3	11	4	3	14	4	3	17	4	3	20
500	6	0	0	6	0	4	6	0	8	6	0	12	6	0	16
600	7	0	32	7	0	36	7	1	1	7	1	6	7	1	11
700	8	1	24	8	1	29	8	1	34	8	2	0	8	2	6
800	9	2	16	9	2	22	9	2	28	9	2	35	9	3	1
900	10	3	8	10	3	15	10	3	21	10	3	29	10	3	36
1000	12	0	0	12	0	8	12	0	16	12	0	24	12	0	32

Digitized by Google

under Twelve Chains and a Half.

Width in Links.	1225			1230			1235			1240			1245		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
2	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
3	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
4	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
5	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
6	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
7	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
8	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
9	0	0	18	0	0	18	0	0	18	0	0	18	0	0	18
10	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
20	0	0	39	0	0	39	0	0	39	0	0	39	0	0	39
30	0	1	18	0	1	19	0	1	19	0	1	19	0	1	19
40	0	1	38	0	1	38	0	1	39	0	1	39	0	1	39
50	0	2	18	0	2	18	0	2	18	0	2	19	0	2	19
60	0	2	37	0	2	38	0	2	38	0	2	39	0	2	39
70	0	3	17	0	3	17	0	3	18	0	3	18	0	3	19
80	0	3	36	0	3	37	0	3	38	0	3	38	0	3	39
90	1	0	16	1	0	17	1	0	17	1	0	18	1	0	19
100	1	0	36	1	0	36	1	0	37	1	0	38	1	0	39
110	1	1	15	1	1	16	1	1	17	1	1	18	1	1	19
120	1	1	35	1	1	36	1	1	37	1	1	38	1	1	39
130	1	2	14	1	2	15	1	2	16	1	2	17	1	2	18
140	1	2	34	1	2	35	1	2	36	1	2	37	1	2	38
150	1	3	14	1	3	15	1	3	16	1	3	17	1	3	18
160	1	3	33	1	3	34	1	3	36	1	3	37	1	3	38
170	2	0	13	2	0	14	2	0	15	2	0	17	2	0	18
180	2	0	32	2	0	34	2	0	35	2	0	37	2	0	38
190	2	1	12	2	1	13	2	1	15	2	1	16	2	1	18
200	2	1	32	2	1	33	2	1	35	2	1	36	2	1	38
210	2	2	11	2	2	13	2	2	14	2	2	16	2	2	18
220	2	2	31	2	2	32	2	2	34	2	2	36	2	2	38
230	2	3	10	2	3	12	2	3	14	2	3	16	2	3	18
240	2	3	30	2	3	32	2	3	34	2	3	36	2	3	38
250	3	0	10	3	0	12	3	0	14	3	0	16	3	0	18
260	3	0	29	3	0	31	3	0	33	3	0	35	3	0	38
270	3	1	9	3	1	11	3	1	13	3	1	15	3	1	18
280	3	1	28	3	1	31	3	1	33	3	1	35	3	1	38
290	3	2	8	3	2	10	3	2	13	3	2	15	3	2	18
300	3	2	28	3	2	30	3	2	32	3	2	35	3	2	38
400	4	3	24	4	3	27	4	3	30	4	3	33	4	3	36
500	6	0	20	6	0	24	6	0	28	6	0	32	6	0	36
600	7	1	16	7	1	20	7	1	25	7	1	30	7	1	35
700	8	2	12	8	2	17	8	2	23	8	2	28	8	2	34
800	9	3	8	9	3	14	9	3	20	9	3	27	9	3	33
900	11	0	4	11	0	11	11	0	18	11	0	25	11	0	32
1000	12	1	0	12	1	8	12	1	16	12	1	24	12	1	32

Digitized by Google

Twelve Chains and a Half and

Width in Links.	1250			1255			1260			1265			1270		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
4	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
5	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
6	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
7	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
8	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
9	0	0	18	0	0	18	0	0	18	0	0	18	0	0	18
10	0	0	20	0	0	20	0	0	20	0	0	20	0	0	20
20	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0
30	0	1	20	0	1	20	0	1	20	0	1	20	0	1	20
40	0	2	0	0	2	0	0	2	0	0	2	0	0	2	1
50	0	2	20	0	2	20	0	2	20	0	2	21	0	2	21
60	0	3	0	0	3	0	0	3	0	0	3	1	0	3	1
70	0	3	20	0	3	20	0	3	21	0	3	21	0	3	22
80	1	0	0	1	0	0	1	0	1	1	0	1	1	0	2
90	1	0	20	1	0	20	1	0	21	1	0	22	1	0	22
100	1	1	0	1	1	0	1	1	1	1	1	2	1	1	3
110	1	1	20	1	1	20	1	1	21	1	1	22	1	1	23
120	1	2	0	1	2	0	1	2	1	1	2	2	1	2	3
130	1	2	20	1	2	21	1	2	22	1	2	23	1	2	24
140	1	3	0	1	3	1	1	3	2	1	3	3	1	3	4
150	1	3	20	1	3	21	1	3	22	1	3	23	1	3	24
160	2	0	0	2	0	1	2	0	2	2	0	3	2	0	5
170	2	0	20	2	0	21	2	0	22	2	0	24	2	0	25
180	2	1	0	2	1	1	2	1	2	2	1	4	2	1	5
190	2	1	20	2	1	21	2	1	23	2	1	24	2	1	26
200	2	2	0	2	2	1	2	2	3	2	2	4	2	2	5
210	2	2	20	2	2	21	2	2	23	2	2	25	2	2	26
220	2	3	0	2	3	1	2	3	3	2	3	5	2	3	7
230	2	3	20	2	3	21	2	3	23	2	3	25	2	3	27
240	3	0	0	3	0	1	3	0	3	3	0	5	3	0	7
250	3	0	20	3	0	22	3	0	24	3	0	26	3	0	28
260	3	1	0	3	1	2	3	1	4	3	1	6	3	1	8
270	3	1	20	3	1	22	3	1	24	3	1	26	3	1	28
280	3	2	0	3	2	2	3	2	4	3	2	6	3	2	8
290	3	2	20	3	2	22	3	2	24	3	2	26	3	2	29
300	3	3	0	3	3	2	3	3	4	3	3	7	3	3	9
400	5	0	0	5	0	3	5	0	6	5	0	9	5	0	12
500	6	1	0	6	1	4	6	1	8	6	1	12	6	1	16
600	7	2	0	7	2	4	7	2	9	7	2	14	7	2	19
700	8	3	0	8	3	5	8	3	11	8	3	16	8	3	22
800	10	0	0	10	0	6	10	0	12	10	0	19	10	0	26
900	11	1	0	11	1	7	11	1	14	11	1	21	11	1	28
1000	12	2	0	12	2	8	12	2	16	12	2	24	12	2	32

Digitized by Google

under Thirteen Chains.

Width in Links.	1275			1280			1285			1290			1295		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
4	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
5	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
6	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
7	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
8	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
9	0	0	18	0	0	18	0	0	18	0	0	18	0	0	18
10	0	0	20	0	0	20	0	0	20	0	0	20	0	0	20
20	0	1	0	0	1	0	0	1	1	0	1	1	0	1	1
30	0	1	21	0	1	21	0	1	21	0	1	21	0	1	22
40	0	2	1	0	2	1	0	2	2	0	2	2	0	2	2
50	0	2	22	0	2	22	0	2	22	0	2	23	0	2	23
60	0	3	2	0	3	2	0	3	3	0	3	3	0	3	4
70	0	3	22	0	3	23	0	3	23	0	3	24	0	3	24
80	1	0	3	1	0	3	1	0	4	1	0	5	1	0	5
90	1	0	23	1	0	24	1	0	25	1	0	25	1	0	26
100	1	1	4	1	1	4	1	1	5	1	1	6	1	1	7
110	1	1	24	1	1	25	1	1	26	1	1	27	1	1	27
120	1	2	4	1	2	5	1	2	6	1	2	7	1	2	8
130	1	2	25	1	2	26	1	2	27	1	2	28	1	2	29
140	1	3	5	1	3	6	1	3	7	1	3	8	1	3	10
150	1	3	26	1	3	27	1	3	28	1	3	29	1	3	30
160	2	0	6	2	0	7	2	0	8	2	0	10	2	0	11
170	2	0	26	2	0	28	2	0	29	2	0	30	2	0	32
180	2	1	7	2	1	8	2	1	10	2	1	11	2	1	12
190	2	1	27	2	1	28	2	1	30	2	1	32	2	1	33
200	2	2	7	2	2	10	2	2	10	2	2	13	2	2	14
210	2	2	28	2	2	29	2	2	31	2	2	33	2	2	35
220	2	3	8	2	3	10	2	3	12	2	3	14	2	3	15
230	2	3	29	2	3	30	2	3	32	2	3	34	2	3	36
240	3	0	9	3	0	11	3	0	13	3	0	15	3	0	17
250	3	0	30	3	0	32	3	0	34	3	0	36	3	0	38
260	3	1	10	3	1	12	3	1	14	3	1	16	3	1	18
270	3	1	30	3	1	32	3	1	35	3	1	37	3	1	39
280	3	2	11	3	2	13	3	2	15	3	2	17	3	2	20
290	3	2	31	3	2	33	3	2	36	3	2	38	3	3	0
300	3	3	12	3	3	14	3	3	16	3	3	19	3	3	21
400	5	0	16	5	0	18	5	0	22	5	0	26	5	0	30
500	6	1	20	6	1	24	6	1	28	6	1	32	6	1	36
600	7	2	24	7	2	29	7	2	33	7	2	38	7	3	3
700	8	3	28	8	3	34	8	3	39	9	0	4	9	0	10
800	10	0	32	10	0	38	10	1	4	10	1	11	10	1	17
900	11	1	36	11	2	3	11	2	10	11	2	18	11	2	24
1000	12	3	0	12	3	8	12	3	16	12	3	24	12	3	32

Digitized by Google

Thirteen Chains and

Width in Links.	1300			1305			1310			1315			1320		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
4	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
5	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
6	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
7	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
8	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
9	0	0	18	0	0	18	0	0	18	0	0	19	0	0	19
10	0	0	20	0	0	20	0	0	20	0	0	21	0	0	21
20	0	1	1	0	1	1	0	1	1	0	1	2	0	1	2
30	0	1	22	0	1	22	0	1	22	0	1	23	0	1	23
40	0	2	3	0	2	3	0	2	3	0	2	4	0	2	4
50	0	2	24	0	2	24	0	2	24	0	2	25	0	2	25
60	0	3	4	0	3	5	0	3	5	0	3	6	0	3	6
70	0	3	25	0	3	26	0	3	26	0	3	27	0	3	27
80	1	0	6	1	0	6	1	0	7	1	0	8	1	0	8
90	1	0	27	1	0	27	1	0	28	1	0	29	1	0	30
100	1	1	8	1	1	8	1	1	9	1	1	10	1	1	11
110	1	1	29	1	1	29	1	1	30	1	1	31	1	1	32
120	1	2	10	1	2	10	1	2	11	1	2	12	1	2	13
130	1	2	31	1	2	31	1	2	32	1	2	33	1	2	34
140	1	3	12	1	3	12	1	3	13	1	3	14	1	3	15
150	1	3	32	1	3	33	1	3	34	1	3	35	1	3	36
160	2	0	13	2	0	13	2	0	15	2	0	16	2	0	17
170	2	0	34	2	0	34	2	0	36	2	0	37	2	0	39
180	2	1	15	2	1	15	2	1	17	2	1	18	2	1	20
190	2	1	36	2	1	36	2	1	38	2	1	39	2	2	1
200	2	2	16	2	2	17	2	2	19	2	2	20	2	2	22
210	2	2	37	2	2	38	2	3	0	2	3	1	2	3	3
220	2	3	18	2	3	19	2	3	21	2	3	22	2	3	24
230	2	3	39	3	0	0	3	0	2	3	0	3	3	0	5
240	3	0	19	3	0	21	3	0	23	3	0	24	3	0	26
250	3	1	0	3	1	2	3	1	4	3	1	6	3	1	8
260	3	1	21	3	1	22	3	1	24	3	1	27	3	1	29
270	3	2	2	3	2	3	3	2	5	3	2	8	3	2	10
280	3	2	23	3	2	24	3	2	26	3	2	29	3	2	31
290	3	3	3	3	3	5	3	3	7	3	3	10	3	3	12
300	3	3	24	3	3	26	3	3	28	3	3	31	3	3	33
400	5	0	32	5	0	34	5	0	38	5	1	1	5	1	4
500	6	2	0	6	2	4	6	2	8	6	2	12	6	2	16
600	7	3	8	7	3	12	7	3	17	7	3	22	7	3	27
700	9	0	16	9	0	22	9	0	27	9	0	32	9	0	38
800	10	1	24	10	1	29	10	1	36	10	2	3	10	2	9
900	11	2	32	11	2	38	11	3	6	11	3	14	11	3	20
1000	13	0	0	13	0	8	13	0	16	13	0	24	13	0	32

Digitized by Google

under Thirteen Chains and a Half.

Width in Links.	1325			1330			1335			1340			1345		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
4	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
5	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
6	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
7	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
8	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
9	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
10	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
20	0	1	2	0	1	2	0	1	2	0	1	2	0	1	3
30	0	1	23	0	1	23	0	1	24	0	1	24	0	1	24
40	0	2	4	0	2	5	0	2	5	0	2	5	0	2	6
50	0	2	26	0	2	26	0	2	26	0	2	27	0	2	27
60	0	3	7	0	3	7	0	3	8	0	3	8	0	3	9
70	0	3	28	0	3	28	0	3	29	0	3	30	0	3	30
80	1	0	9	1	0	10	1	0	10	1	0	11	1	0	12
90	1	0	30	1	0	31	1	0	32	1	0	32	1	0	33
100	1	1	12	1	1	12	1	1	13	1	1	14	1	1	15
110	1	1	33	1	1	34	1	1	34	1	1	35	1	1	36
120	1	2	14	1	2	15	1	2	16	1	2	17	1	2	18
130	1	2	35	1	2	36	1	2	37	1	2	38	1	2	39
140	1	3	16	1	3	17	1	3	19	1	3	20	1	3	21
150	1	3	38	1	3	39	2	0	0	2	0	1	2	0	2
160	2	0	19	2	0	20	2	0	21	2	0	23	2	0	24
170	2	1	0	2	1	1	2	1	3	2	1	4	2	1	5
180	2	1	21	2	1	23	2	1	24	2	1	25	2	1	27
190	2	2	2	2	2	4	2	2	5	2	2	7	2	2	8
200	2	2	24	2	2	25	2	2	27	2	2	28	2	2	30
210	2	3	5	2	3	6	2	3	8	2	3	10	2	3	11
220	2	3	26	2	3	28	2	3	29	2	3	31	2	3	33
230	3	0	7	3	0	9	3	0	11	3	0	13	3	0	14
240	3	0	28	3	0	30	3	0	32	3	0	34	3	0	36
250	3	1	10	3	1	12	3	1	14	3	1	16	3	1	18
260	3	1	31	3	1	33	3	1	35	3	1	37	3	1	39
270	3	2	12	3	2	14	3	2	16	3	2	18	3	2	21
280	3	2	33	3	2	35	3	2	38	3	3	0	3	3	2
290	3	3	14	3	3	17	3	3	19	3	3	21	3	3	24
300	3	3	36	3	3	38	4	0	0	4	0	3	4	0	5
400	5	1	8	5	1	11	5	1	14	5	1	17	5	1	20
500	6	2	20	6	2	24	6	2	28	6	2	32	6	2	36
600	7	3	32	7	3	36	8	0	1	8	0	6	8	0	11
700	9	1	4	9	1	9	9	1	14	9	1	20	9	1	26
800	10	2	16	10	2	22	10	2	28	10	2	35	10	3	1
900	11	3	28	11	3	35	12	0	1	12	0	9	12	0	16
1000	13	1	0	13	1	8	13	1	16	13	1	24	13	1	32

Digitized by Google

Thirteen Chains and a Half and

Width in Links.	1350			1355			1360			1365			1370		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
4	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
5	0	0	10	0	0	10	0	0	10	0	0	10	0	0	10
6	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
7	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
8	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
9	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
10	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
20	0	1	3	0	1	3	0	1	3	0	1	3	0	1	3
30	0	1	24	0	1	25	0	1	25	0	1	25	0	1	25
40	0	2	6	0	2	6	0	2	7	0	2	7	0	2	7
50	0	2	28	0	2	28	0	2	28	0	2	29	0	2	29
60	0	3	9	0	3	10	0	3	10	0	3	11	0	3	11
70	0	3	31	0	3	31	0	3	32	0	3	32	0	3	33
80	1	0	12	1	0	13	1	0	14	1	0	14	1	0	15
90	1	0	34	1	0	35	1	0	35	1	0	36	1	0	37
100	1	1	16	1	1	16	1	1	17	1	1	18	1	1	19
110	1	1	37	1	1	38	1	1	39	1	2	0	1	2	1
120	1	2	19	1	2	20	1	2	21	1	2	22	1	2	23
130	1	3	1	1	3	1	1	3	2	1	3	3	1	3	4
140	1	3	22	1	3	23	1	3	24	1	3	25	1	3	26
150	2	0	4	2	0	5	2	0	6	2	0	7	2	0	8
160	2	0	25	2	0	26	2	0	28	2	0	29	2	0	30
170	2	1	7	2	1	8	2	1	10	2	1	11	2	1	12
180	2	1	29	2	1	30	2	1	31	2	1	33	2	1	34
190	2	2	11	2	2	12	2	2	13	2	2	14	2	2	16
200	2	2	33	2	2	34	2	2	35	2	2	36	2	2	38
210	2	3	14	2	3	15	2	3	17	2	3	18	2	3	20
220	2	3	36	2	3	37	2	3	38	3	0	0	3	0	2
230	3	0	17	3	0	18	3	0	20	3	0	22	3	0	24
240	3	0	39	3	1	0	3	1	2	3	1	4	3	1	6
250	3	1	20	3	1	22	3	1	24	3	1	26	3	1	28
260	3	2	2	3	2	3	3	2	5	3	2	7	3	2	9
270	3	2	24	3	2	25	3	2	27	3	2	29	3	2	31
280	3	3	5	3	3	7	3	3	9	3	3	11	3	3	13
290	3	3	27	3	3	28	3	3	31	3	3	33	3	3	35
300	4	0	8	4	0	10	4	0	12	4	0	15	4	0	17
400	5	1	24	5	1	27	5	1	30	5	1	33	5	1	36
500	6	3	0	6	3	4	6	3	8	6	3	12	6	3	16
600	8	0	17	8	0	20	8	0	25	8	0	30	8	0	35
700	9	1	33	9	1	37	9	2	3	9	2	8	9	2	14
800	10	3	9	10	3	14	10	3	20	10	3	27	10	3	33
900	12	0	25	12	0	31	12	0	38	12	1	5	12	1	12
1000	13	2	0	13	2	8	13	2	16	13	2	24	13	2	32

Digitized by Google

under Fourteen Chains.

Width in Links.	1375			1380			1385			1390			1395		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
4	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
5	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
6	0	0	13	0	0	13	0	0	13	0	0	13	0	0	13
7	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
8	0	0	17	0	0	17	0	0	17	0	0	17	0	0	17
9	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
10	0	0	22	0	0	22	0	0	22	0	0	22	0	0	22
20	0	1	4	0	1	4	0	1	4	0	1	4	0	1	4
30	0	1	26	0	1	26	0	1	26	0	1	26	0	1	26
40	0	2	8	0	2	8	0	2	8	0	2	8	0	2	9
50	0	2	30	0	2	30	0	2	30	0	2	31	0	2	32
60	0	3	12	0	3	12	0	3	12	0	3	13	0	3	14
70	0	3	34	0	3	34	0	3	35	0	3	35	0	3	37
80	1	0	16	1	0	16	1	0	17	1	0	17	1	0	19
90	1	0	38	1	0	38	1	0	39	1	1	0	1	1	1
100	1	1	20	1	1	20	1	1	21	1	1	22	1	1	23
110	1	2	2	1	2	2	1	2	3	1	2	4	1	2	5
120	1	2	24	1	2	24	1	2	25	1	2	26	1	2	27
130	1	3	6	1	3	7	1	3	8	1	3	9	1	3	10
140	1	3	28	1	3	29	1	3	30	1	3	31	1	3	32
150	2	0	10	2	0	11	2	0	12	2	0	13	2	0	14
160	2	0	32	2	0	33	2	0	34	2	0	35	2	0	37
170	2	1	14	2	1	15	2	1	16	2	1	18	2	1	19
180	2	1	36	2	1	37	2	1	38	2	2	0	2	2	1
190	2	2	18	2	2	19	2	2	21	2	2	22	2	2	24
200	2	3	0	2	3	1	2	3	3	2	3	4	2	3	6
210	2	3	22	2	3	23	2	3	25	2	3	27	2	3	28
220	3	0	4	3	0	5	3	0	7	3	0	9	3	0	11
230	3	0	26	3	0	27	3	0	29	3	0	31	3	0	33
240	3	1	8	3	1	9	3	1	11	3	1	13	3	1	15
250	3	1	30	3	1	32	3	1	34	3	1	36	3	1	38
260	3	2	12	3	2	14	3	2	16	3	2	18	3	2	20
270	3	2	34	3	2	36	3	2	38	3	3	0	3	3	2
280	3	3	16	3	3	18	3	3	20	3	3	22	3	3	24
290	3	3	38	4	0	0	4	0	2	4	0	4	4	0	7
300	4	0	20	4	0	22	4	0	24	4	0	27	4	0	29
400	5	2	0	5	2	3	5	2	6	5	2	9	5	2	12
500	6	3	20	6	3	24	6	3	28	6	3	32	6	3	36
600	8	1	0	8	1	4	8	1	9	8	1	14	8	1	19
700	9	2	20	9	2	25	9	2	31	9	2	36	9	3	2
800	11	0	0	11	0	6	11	0	12	11	0	19	11	0	25
900	12	1	20	12	1	27	12	1	34	12	2	1	12	2	8
1000	13	3	0	13	3	8	13	3	16	13	3	24	13	3	32

Digitized by Google

Fourteen Chains and

Width in Links.	1400			1405			1410			1415			1420		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
4	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
5	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
6	0	0	13	0	0	13	0	0	13	0	0	13	0	0	13
7	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
8	0	0	17	0	0	17	0	0	17	0	0	17	0	0	17
9	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
10	0	0	22	0	0	22	0	0	22	0	0	22	0	0	22
20	0	1	4	0	1	4	0	1	5	0	1	5	0	1	5
30	0	1	27	0	1	27	0	1	27	0	1	27	0	1	28
40	0	2	9	0	2	9	0	2	10	0	2	10	0	2	10
50	0	2	32	0	2	32	0	2	32	0	2	33	0	2	33
60	0	3	14	0	3	14	0	3	15	0	3	15	0	3	16
70	0	3	36	0	3	37	0	3	37	0	3	38	0	3	39
80	1	0	19	1	0	19	1	0	20	1	0	21	1	0	21
90	1	1	1	1	1	2	1	1	3	1	1	3	1	1	4
100	1	1	24	1	1	24	1	1	25	1	1	26	1	1	27
110	1	2	6	1	2	7	1	2	8	1	2	9	1	2	9
120	1	2	28	1	2	29	1	2	30	1	2	31	1	2	32
130	1	3	11	1	3	12	1	3	13	1	3	14	1	3	15
140	1	3	33	1	3	34	1	3	35	1	3	36	1	3	38
150	2	0	16	2	0	17	2	0	18	2	0	19	2	0	20
160	2	0	38	2	0	39	2	1	0	2	1	2	2	1	3
170	2	1	20	2	1	22	2	1	23	2	1	24	2	1	26
180	2	2	3	2	2	4	2	2	6	2	2	7	2	2	8
190	2	2	25	2	2	27	2	2	28	2	2	30	2	2	31
200	2	3	8	2	3	9	2	3	11	2	3	12	2	3	14
210	2	3	30	2	3	32	2	3	33	2	3	35	2	3	37
220	3	0	12	3	0	14	3	0	16	3	0	18	3	0	19
230	3	0	35	3	0	37	3	0	38	3	1	0	3	1	2
240	3	1	17	3	1	19	3	1	21	3	1	23	3	1	25
250	3	2	0	3	2	2	3	2	4	3	2	6	3	2	8
260	3	2	22	3	2	24	3	2	26	3	2	28	3	2	30
270	3	3	4	3	3	6	3	3	9	3	3	11	3	3	13
280	3	3	27	3	3	29	3	3	31	3	3	33	3	3	36
290	4	0	9	4	0	11	4	0	14	4	0	16	4	0	18
300	4	0	32	4	0	34	4	0	36	4	0	39	4	1	1
400	5	2	16	5	2	19	5	2	22	5	2	25	5	2	28
500	7	0	0	7	0	4	7	0	8	7	0	12	7	0	16
600	8	1	24	8	1	28	8	1	33	8	1	38	8	2	3
700	9	3	8	9	3	13	9	3	19	9	3	24	9	3	30
800	11	0	32	11	0	38	11	1	4	11	1	11	11	1	17
900	12	2	16	12	2	23	12	2	30	12	2	37	12	3	4
1000	14	0	0	14	0	8	14	0	16	14	0	24	14	0	32

Digitized by Google

under Fourteen Chains and a Half.

Width in Links.	1425			1430			1435			1440			1445		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
4	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
5	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
6	0	0	13	0	0	13	0	0	13	0	0	13	0	0	13
7	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
8	0	0	17	0	0	17	0	0	17	0	0	17	0	0	17
9	0	0	19	0	0	21	0	0	21	0	0	21	0	0	21
10	0	0	22	0	0	22	0	0	22	0	0	23	0	0	23
20	0	1	5	0	1	5	0	1	5	0	1	6	0	1	6
30	0	1	28	0	1	28	0	1	28	0	1	29	0	1	29
40	0	2	11	0	2	11	0	2	11	0	2	12	0	2	12
50	0	2	34	0	2	34	0	2	34	0	2	35	0	2	35
60	0	3	16	0	3	17	0	3	17	0	3	18	0	3	18
70	0	3	39	1	0	0	1	0	0	1	0	1	1	0	1
80	1	0	22	1	0	23	1	0	23	1	0	24	1	0	24
90	1	1	5	1	1	5	1	1	6	1	1	7	1	1	8
100	1	1	28	1	1	28	1	1	29	1	1	30	1	1	31
110	1	2	10	1	2	11	1	2	12	1	2	13	1	2	14
120	1	2	33	1	2	34	1	2	35	1	2	36	1	2	37
130	1	3	16	1	3	17	1	3	18	1	3	19	1	3	20
140	1	3	39	2	0	0	2	0	1	2	0	2	2	0	3
150	2	0	22	2	0	23	2	0	24	2	0	25	2	0	26
160	2	1	4	2	1	6	2	1	7	2	1	8	2	1	9
170	2	1	27	2	1	28	2	1	30	2	1	31	2	1	33
180	2	2	10	2	2	11	2	2	13	2	2	14	2	2	16
190	2	2	33	2	2	34	2	2	36	2	2	37	2	2	39
200	2	3	16	2	3	17	2	3	19	2	3	20	2	3	22
210	2	3	38	3	0	0	3	0	2	3	0	3	3	0	5
220	3	0	21	3	0	23	3	0	25	3	0	26	3	0	28
230	3	1	4	3	1	6	3	1	8	3	1	9	3	1	11
240	3	1	27	3	1	29	3	1	31	3	1	32	3	1	34
250	3	2	10	3	2	12	3	2	14	3	2	16	3	2	18
260	3	2	32	3	2	34	3	2	37	3	2	39	3	3	1
270	3	3	16	3	3	17	3	3	20	3	3	23	3	3	24
280	3	3	37	4	0	0	4	0	2	4	0	5	4	0	7
290	4	0	20	4	0	23	4	0	25	4	0	28	4	0	30
300	4	1	3	4	1	6	4	1	8	4	1	11	4	1	13
400	5	2	32	5	2	35	5	2	38	5	3	1	5	3	4
500	7	0	20	7	0	24	7	0	28	7	0	32	7	0	36
600	8	2	8	8	2	12	8	2	17	8	2	22	8	2	27
700	9	3	36	10	0	1	10	0	7	10	0	12	10	0	18
800	11	1	24	11	1	30	11	1	36	11	2	3	11	2	9
900	12	3	12	12	3	19	12	3	26	12	3	33	13	0	0
1000	14	1	0	14	1	8	14	1	16	14	1	24	14	1	32

Digitized by Google

Fourteen Chains and a Half and

Width in Links.	1450			1455			1460			1465			1470		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
4	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
5	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
6	0	0	13	0	0	13	0	0	13	0	0	13	0	0	13
7	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
8	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
9	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
10	0	0	23	0	0	23	0	0	23	0	0	23	0	0	23
20	0	1	6	0	1	6	0	1	6	0	1	6	0	1	7
30	0	1	29	0	1	29	0	1	30	0	1	30	0	1	30
40	0	2	12	0	2	13	0	2	13	0	2	13	0	2	14
50	0	2	35	0	2	36	0	2	36	0	2	37	0	2	37
60	0	3	19	0	3	19	0	3	20	0	3	20	0	3	21
70	1	0	2	1	0	2	1	0	3	1	0	4	1	0	4
80	1	0	25	1	0	26	1	0	26	1	0	27	1	0	28
90	1	1	8	1	1	9	1	1	10	1	1	10	1	1	11
100	1	1	31	1	1	32	1	1	33	1	1	34	1	1	35
110	1	2	15	1	2	16	1	2	16	1	2	17	1	2	18
120	1	2	38	1	2	39	1	3	0	1	3	1	1	3	2
130	1	3	21	1	3	22	1	3	23	1	3	24	1	3	25
140	2	0	4	2	0	5	2	0	7	2	0	8	2	0	9
150	2	0	27	2	0	29	2	0	30	2	0	31	2	0	32
160	2	1	11	2	1	12	2	1	13	2	1	15	2	1	16
170	2	1	34	2	1	35	2	1	37	2	1	38	2	1	39
180	2	2	17	2	2	19	2	2	20	2	2	21	2	2	23
190	2	3	0	2	3	2	2	3	3	2	3	5	2	3	6
200	2	3	23	2	3	25	2	3	27	2	3	28	2	3	30
210	3	0	7	3	0	8	3	0	10	3	0	12	3	0	13
220	3	0	30	3	0	32	3	0	33	3	0	35	3	0	37
230	3	1	13	3	1	15	3	1	17	3	1	19	3	1	20
240	3	1	36	3	1	38	3	2	0	3	2	2	3	2	4
250	3	2	20	3	2	22	3	2	24	3	2	26	3	2	28
260	3	3	3	3	3	5	3	3	7	3	3	9	3	3	11
270	3	3	26	3	3	28	3	3	30	3	3	32	3	3	35
280	4	0	9	4	0	11	4	0	14	4	0	16	4	0	18
290	4	0	32	4	0	35	4	0	37	4	0	39	4	1	2
300	4	1	16	4	1	18	4	1	20	4	1	23	4	1	25
400	5	3	7	5	3	11	5	3	14	5	3	17	5	3	20
500	7	1	0	7	1	4	7	1	8	7	1	12	7	1	16
600	8	2	32	8	2	36	8	3	1	8	3	6	8	3	11
700	10	0	24	10	0	29	10	0	35	10	1	0	10	1	6
800	11	2	16	11	2	22	11	2	28	11	2	35	11	3	1
900	13	0	8	13	0	15	13	0	22	13	0	29	13	0	36
1000	14	2	0	14	2	8	14	2	16	14	2	24	14	2	32

Digitized by Google

under Fifteen Chains.

Width in Links.	1475			1480			1485			1490			1495		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
4	0	0	8	0	0	8	0	0	8	0	0	8	0	0	8
5	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
6	0	0	13	0	0	13	0	0	13	0	0	13	0	0	13
7	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
8	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
9	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
10	0	0	23	0	0	23	0	0	23	0	0	23	0	0	23
20	0	1	7	0	1	7	0	1	7	0	1	7	0	1	7
30	0	1	30	0	1	31	0	1	31	0	1	31	0	1	31
40	0	2	14	0	2	14	0	2	15	0	2	15	0	2	15
50	0	2	38	0	2	38	0	2	38	0	2	39	0	2	39
60	0	3	21	0	3	22	0	3	22	0	3	23	0	3	23
70	1	0	5	1	0	5	1	0	6	1	0	6	1	0	7
80	1	0	28	1	0	29	1	0	30	1	0	30	1	0	31
90	1	1	12	1	1	13	1	1	13	1	1	14	1	1	15
100	1	1	36	1	1	36	1	1	37	1	1	38	1	1	39
110	1	2	19	1	2	20	1	2	21	1	2	22	1	2	23
120	1	3	3	1	3	4	1	3	5	1	3	6	1	3	7
130	1	3	27	1	3	27	1	3	28	1	3	29	1	3	30
140	2	0	10	2	0	11	2	0	12	2	0	13	2	0	14
150	2	0	34	2	0	35	2	0	36	2	0	37	2	0	38
160	2	1	17	2	1	18	2	1	20	2	1	21	2	1	22
170	2	2	1	2	2	2	2	2	3	2	2	5	2	2	6
180	2	2	24	2	2	26	2	2	27	2	2	29	2	2	30
190	2	3	8	2	3	9	2	3	11	2	3	12	2	3	14
200	2	3	32	2	3	33	2	3	35	2	3	36	2	3	38
210	3	0	15	3	0	17	3	0	18	3	0	20	3	0	22
220	3	0	39	3	1	0	3	1	2	3	1	4	3	1	6
230	3	1	22	3	1	24	3	1	26	3	1	28	3	1	30
240	3	2	6	3	2	8	3	2	10	3	2	12	3	2	14
250	3	2	30	3	2	32	3	2	34	3	2	36	3	2	38
260	3	3	13	3	3	15	3	3	17	3	3	19	3	3	21
270	3	3	37	3	3	39	4	0	1	4	0	3	4	0	5
280	4	0	20	4	0	23	4	0	25	4	0	26	4	0	29
290	4	1	4	4	1	6	4	1	9	4	1	10	4	1	13
300	4	1	28	4	1	30	4	1	32	4	1	34	4	1	37
400	5	3	24	5	3	27	5	3	30	5	3	33	5	3	36
500	7	1	20	7	1	24	7	1	28	7	1	32	7	1	36
600	8	3	16	8	3	20	8	3	25	8	3	30	8	3	35
700	10	1	12	10	1	17	10	1	23	10	1	28	10	1	34
800	11	3	8	11	3	14	11	3	20	11	3	26	11	3	33
900	13	1	4	13	1	11	13	1	18	13	1	25	13	1	32
1000	14	3	0	14	3	8	14	3	16	14	3	24	14	3	32

Digitized by Google

Fifteen Chains and

Width in Links.	1500			1505			1510			1515			1520		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
4	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
5	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
6	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
7	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
8	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
9	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
10	0	0	24	0	0	24	0	0	24	0	0	24	0	0	24
20	0	1	8	0	1	8	0	1	8	0	1	8	0	1	8
30	0	1	32	0	1	32	0	1	32	0	1	32	0	1	32
40	0	2	16	0	2	16	0	2	16	0	2	16	0	2	17
50	0	3	0	0	3	0	0	3	0	0	3	1	0	3	1
60	0	3	24	0	3	24	0	3	24	0	3	25	0	3	25
70	1	0	8	1	0	8	1	0	9	1	0	9	1	0	10
80	1	0	32	1	0	32	1	0	33	1	0	33	1	0	34
90	1	1	16	1	1	16	1	1	17	1	1	18	1	1	18
100	1	2	0	1	2	0	1	2	1	1	2	2	1	2	3
110	1	2	24	1	2	24	1	2	25	1	2	26	1	2	27
120	1	3	8	1	3	8	1	3	9	1	3	10	1	3	11
130	1	3	32	1	3	32	1	3	34	1	3	35	1	3	36
140	2	0	16	2	0	17	2	0	18	2	0	19	2	0	20
150	2	1	0	2	1	1	2	1	2	2	1	3	2	1	5
160	2	1	24	2	1	25	2	1	26	2	1	27	2	1	30
170	2	2	8	2	2	9	2	2	10	2	2	12	2	2	14
180	2	2	32	2	2	33	2	2	34	2	2	36	2	2	38
190	2	3	16	2	3	17	2	3	19	2	3	20	2	3	23
200	3	0	0	3	0	1	3	0	3	3	0	4	3	0	7
210	3	0	24	3	0	25	3	0	27	3	0	29	3	0	31
220	3	1	8	3	1	9	3	1	11	3	1	13	3	1	16
230	3	1	32	3	1	33	3	1	35	3	1	37	3	2	0
240	3	2	16	3	2	17	3	2	19	3	2	21	3	2	24
250	3	3	0	3	3	2	3	3	4	3	3	6	3	3	8
260	3	3	24	3	3	26	3	3	28	3	3	30	3	3	33
270	4	0	8	4	0	10	4	0	12	4	0	14	4	0	17
280	4	0	32	4	0	34	4	0	36	4	0	38	4	1	1
290	4	1	16	4	1	18	4	1	20	4	1	22	4	1	26
300	4	2	0	4	2	2	4	2	4	4	2	7	4	2	10
400	6	0	0	6	0	3	6	0	6	6	0	9	6	0	12
500	7	2	0	7	2	3	7	2	8	7	2	12	7	2	16
600	9	0	0	9	0	4	9	0	9	9	0	14	9	0	19
700	10	2	0	10	2	5	10	2	11	10	2	16	10	2	22
800	12	0	0	12	0	5	12	0	12	12	0	19	12	0	25
900	13	2	0	13	2	6	13	2	14	13	2	21	13	2	28
1000	15	0	0	15	0	8	15	0	16	15	0	24	15	0	32

Digitized by Google

under Fifteen Chains and a Half.

Width in Links.	1525			1530			1535			1540			1545		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
4	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
5	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
6	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
7	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
8	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
9	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
10	0	0	24	0	0	24	0	0	24	0	0	24	0	0	24
20	0	1	8	0	1	8	0	1	9	0	1	9	0	1	9
30	0	1	33	0	1	33	0	1	33	0	1	33	0	1	34
40	0	2	17	0	2	17	0	2	18	0	2	18	0	2	18
50	0	3	2	0	3	2	0	3	2	0	3	3	0	3	3
60	0	3	26	0	3	26	0	3	27	0	3	27	0	3	28
70	1	0	10	1	0	11	1	0	11	1	0	12	1	0	13
80	1	0	35	1	0	35	1	0	36	1	0	37	1	0	37
90	1	1	19	1	1	20	1	1	21	1	1	21	1	1	22
100	1	2	4	1	2	4	1	2	5	1	2	6	1	2	7
110	1	2	28	1	2	28	1	2	30	1	2	31	1	2	31
120	1	3	12	1	3	13	1	3	14	1	3	15	1	3	16
130	1	3	37	1	3	37	1	3	39	2	0	0	2	0	1
140	2	0	21	2	0	22	2	0	23	2	0	24	2	0	26
150	2	1	6	2	1	6	2	1	8	2	1	9	2	1	10
160	2	1	30	2	1	31	2	1	32	2	1	34	2	1	35
170	2	2	14	2	2	15	2	2	17	2	2	18	2	2	20
180	2	2	39	2	3	0	2	3	2	2	3	3	2	3	4
190	2	3	23	2	3	24	2	3	26	2	3	28	2	3	29
200	3	0	8	3	0	10	3	0	11	3	0	12	3	0	14
210	3	0	32	3	0	33	3	0	35	3	0	37	3	0	39
220	3	1	16	3	1	19	3	1	20	3	1	22	3	1	23
230	3	2	1	3	2	2	3	2	4	3	2	6	3	2	8
240	3	2	25	3	2	28	3	2	29	3	2	31	3	2	33
250	3	3	10	3	3	12	3	3	14	3	3	16	3	3	18
260	3	3	34	3	3	35	3	3	38	4	0	0	4	0	2
270	4	0	18	4	0	20	4	0	23	4	0	25	4	0	27
280	4	1	3	4	1	4	4	1	7	4	1	9	4	1	12
290	4	1	27	4	1	29	4	1	32	4	1	34	4	1	36
300	4	2	12	4	2	14	4	2	16	4	2	19	4	2	21
400	6	0	16	6	0	18	6	0	22	6	0	25	6	0	28
500	7	2	20	7	2	24	7	2	28	7	2	32	7	2	36
600	9	0	24	9	0	29	9	0	33	9	0	38	9	1	3
700	10	2	28	10	2	34	10	2	39	10	3	4	10	3	10
800	12	0	32	12	0	38	12	1	4	12	1	11	12	1	17
900	13	2	36	13	3	3	13	3	10	13	3	17	13	3	24
1000	15	1	0	15	1	8	15	1	16	15	1	24	15	1	32

Digitized by Google

Fifteen Chains and a Half and

Width in Links.	1550			1555			1560			1565			1570		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
4	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
5	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
6	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
7	0	0	16	0	0	16	0	0	16	0	0	18	0	0	18
8	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
9	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
10	0	0	24	0	0	24	0	0	24	0	0	25	0	0	25
20	0	1	9	0	1	9	0	1	9	0	1	10	0	1	10
30	0	1	34	0	1	34	0	1	34	0	1	35	0	1	35
40	0	2	19	0	2	19	0	2	19	0	2	20	0	2	20
50	0	3	4	0	3	4	0	3	4	0	3	5	0	3	5
60	0	3	28	0	3	29	0	3	29	0	3	30	0	3	30
70	1	0	13	1	0	14	1	0	14	1	0	15	1	0	15
80	1	0	38	1	0	39	1	0	39	1	1	0	1	1	0
90	1	1	23	1	1	23	1	1	24	1	1	25	1	1	26
100	1	2	8	1	2	8	1	2	9	1	2	10	1	2	11
110	1	2	32	1	2	33	1	2	34	1	2	35	1	2	36
120	1	3	17	1	3	18	1	3	19	1	3	20	1	3	21
130	2	0	2	2	0	3	2	0	4	2	0	5	2	0	6
140	2	0	27	2	0	28	2	0	29	2	0	30	2	0	31
150	2	1	12	2	1	13	2	1	14	2	1	15	2	1	16
160	2	1	36	2	1	38	2	1	39	2	2	0	2	2	1
170	2	2	21	2	2	22	2	2	24	2	2	25	2	2	27
180	2	3	6	2	3	7	2	3	9	2	3	10	2	3	12
190	2	3	31	2	3	32	2	3	34	2	3	35	2	3	37
200	3	0	16	3	0	17	3	0	19	3	0	20	3	0	22
210	3	1	0	3	1	2	3	1	4	3	1	5	3	1	7
220	3	1	25	3	1	27	3	1	29	3	1	30	3	1	32
230	3	2	10	3	2	12	3	2	14	3	2	15	3	2	17
240	3	2	35	3	2	37	3	2	39	3	3	0	3	3	2
250	3	3	20	3	3	22	3	3	24	3	3	26	3	3	28
260	4	0	4	4	0	6	4	0	8	4	0	11	4	0	13
270	4	0	29	4	0	31	4	0	33	4	0	36	4	0	38
280	4	1	14	4	1	16	4	1	18	4	1	21	4	1	23
290	4	1	39	4	2	1	4	2	3	4	2	6	4	2	8
300	4	2	24	4	2	26	4	2	28	4	2	31	4	2	33
400	6	0	32	6	0	35	6	0	38	6	1	1	6	1	4
500	7	3	0	7	3	4	7	3	8	7	3	12	7	3	16
600	9	1	8	9	1	12	9	1	17	9	1	22	9	1	27
700	10	3	16	10	3	21	10	3	27	10	3	32	10	3	38
800	12	1	24	12	1	30	12	1	36	12	2	3	12	2	9
900	13	3	32	13	3	39	14	0	6	14	0	13	14	0	20
1000	15	2	0	15	2	8	15	2	16	15	2	24	15	2	32

Digitized by Google

under Sixteen Chains.

Width in Links.	1575			1580			1585			1590			1595		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
4	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
5	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
6	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
7	0	0	18	0	0	18	0	0	18	0	0	18	0	0	18
8	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
9	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
10	0	0	25	0	0	25	0	0	25	0	0	25	0	0	25
20	0	1	10	0	1	10	0	1	10	0	1	10	0	1	11
30	0	1	35	0	1	35	0	1	36	0	1	36	0	1	36
40	0	2	20	0	2	21	0	2	21	0	2	21	0	2	22
50	0	3	6	0	3	6	0	3	6	0	3	7	0	3	7
60	0	3	31	0	3	31	0	3	32	0	3	32	0	3	33
70	1	0	16	1	0	16	1	0	17	1	0	18	1	0	18
80	1	1	1	1	1	2	1	1	2	1	1	3	1	1	4
90	1	1	26	1	1	27	1	1	28	1	1	28	1	1	29
100	1	2	12	1	2	12	1	2	13	1	2	14	1	2	15
110	1	2	37	1	2	38	1	2	38	1	2	39	1	3	0
120	1	3	22	1	3	23	1	3	24	1	3	25	1	3	26
130	2	0	7	2	0	8	2	0	9	2	0	10	2	0	11
140	2	0	32	2	0	33	2	0	35	2	0	36	2	0	37
150	2	1	18	2	1	19	2	1	20	2	1	21	2	1	23
160	2	2	3	2	2	4	2	2	5	2	2	7	2	2	8
170	2	2	28	2	2	29	2	2	31	2	2	32	2	2	34
180	2	3	13	2	3	15	2	3	16	2	3	17	2	3	19
190	2	3	38	3	0	0	3	0	1	3	0	3	3	0	5
200	3	0	24	3	0	25	3	0	27	3	0	28	3	0	30
210	3	1	9	3	1	10	3	1	12	3	1	14	3	1	16
220	3	1	34	3	1	36	3	1	37	3	1	39	3	2	1
230	3	2	19	3	2	21	3	2	23	3	2	25	3	2	27
240	3	3	4	3	3	6	3	3	8	3	3	10	3	3	12
250	3	3	30	3	3	32	3	3	34	3	3	36	3	3	38
260	4	0	15	4	0	17	4	0	19	4	0	21	4	0	23
270	4	1	0	4	1	2	4	1	4	4	1	6	4	1	9
280	4	1	25	4	1	27	4	1	30	4	1	32	4	1	34
290	4	2	10	4	2	13	4	2	15	4	2	17	4	2	20
300	4	2	36	4	2	38	4	3	0	4	3	3	4	3	5
400	6	1	8	6	1	11	6	1	14	6	1	17	6	1	21
500	7	3	20	7	3	24	7	3	28	7	3	32	7	3	36
600	9	1	32	9	1	36	9	2	1	9	2	6	9	2	11
700	11	0	4	11	0	9	11	0	15	11	0	20	11	0	26
800	12	2	16	12	2	22	12	2	28	12	2	35	12	3	1
900	14	0	28	14	0	35	14	1	2	14	1	9	14	1	16
1000	15	3	0	15	3	8	15	3	16	15	3	24	15	3	32

Digitized by Google

Sixteen Chains and

Width in Links.	1600			1605			1610			1615			1620		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
4	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
5	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
6	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
7	0	0	18	0	0	18	0	0	18	0	0	18	0	0	18
8	0	0	19	0	0	21	0	0	21	0	0	21	0	0	21
9	0	0	22	0	0	22	0	0	22	0	0	22	0	0	22
10	0	0	25	0	0	25	0	0	25	0	0	25	0	0	25
20	0	1	11	0	1	11	0	1	11	0	1	11	0	1	11
30	0	1	36	0	1	37	0	1	37	0	1	37	0	1	37
40	0	2	22	0	2	22	0	2	23	0	2	23	0	2	23
50	0	3	8	0	3	8	0	3	9	0	3	9	0	3	9
60	0	3	33	0	3	34	0	3	34	0	3	35	0	3	35
70	1	0	19	1	0	19	1	0	20	1	0	20	1	0	21
80	1	1	4	1	1	5	1	1	6	1	1	6	1	1	7
90	1	1	30	1	1	31	1	1	31	1	1	32	1	1	33
100	1	2	16	1	2	16	1	2	17	1	2	18	1	2	19
110	1	3	1	1	3	2	1	3	3	1	3	4	1	3	5
120	1	3	27	1	3	28	1	3	29	1	3	30	1	3	31
130	2	0	12	2	0	13	2	0	14	2	0	15	2	0	16
140	2	0	38	2	0	39	2	1	0	2	1	1	2	1	2
150	2	1	24	2	1	25	2	1	26	2	1	27	2	1	28
160	2	2	9	2	2	10	2	2	12	2	2	13	2	2	14
170	2	2	35	2	2	36	2	2	37	2	2	39	2	3	0
180	2	3	20	2	3	22	2	3	23	2	3	25	2	3	26
190	3	0	6	3	0	7	3	0	9	3	0	10	3	0	12
200	3	0	32	3	0	33	3	0	35	3	0	36	3	0	38
210	3	1	17	3	1	19	3	1	20	3	1	22	3	1	24
220	3	2	3	3	2	4	3	2	6	3	2	8	3	2	10
230	3	2	28	3	2	30	3	2	32	3	2	34	3	2	36
240	3	3	14	3	3	16	3	3	18	3	3	20	3	3	22
250	4	0	0	4	0	2	4	0	4	4	0	6	4	0	8
260	4	0	25	4	0	27	4	0	29	4	0	31	4	0	33
270	4	1	11	4	1	13	4	1	15	4	1	17	4	1	19
280	4	1	36	4	1	39	4	2	1	4	2	3	4	2	5
290	4	2	22	4	2	24	4	2	27	4	2	29	4	2	31
300	4	3	8	4	3	10	4	3	12	4	3	15	4	3	17
400	6	1	24	6	1	27	6	1	30	6	1	33	6	1	36
500	8	0	0	8	0	4	8	0	8	8	0	12	8	0	16
600	9	2	16	9	2	20	9	2	25	9	2	30	9	2	35
700	11	0	32	11	0	37	11	1	3	11	1	8	11	1	14
800	12	3	8	12	3	14	12	3	20	12	3	27	12	3	33
900	14	1	24	14	1	31	14	1	38	14	2	5	14	2	12
1000	16	0	0	16	0	8	16	0	16	16	0	24	16	0	32

Digitized by Google

under Sixteen Chains and a Half.

Width in Links.	1625			1630			1635			1640			1645		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
4	0	0	9	0	0	9	0	0	9	0	0	9	0	0	11
5	0	0	13	0	0	13	0	0	13	0	0	13	0	0	13
6	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
7	0	0	17	0	0	17	0	0	17	0	0	17	0	0	17
8	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
9	0	0	23	0	0	23	0	0	23	0	0	23	0	0	23
10	0	0	26	0	0	26	0	0	26	0	0	26	0	0	26
20	0	1	12	0	1	12	0	1	12	0	1	12	0	1	12
30	0	1	38	0	1	38	0	1	38	0	1	38	0	1	38
40	0	2	24	0	2	24	0	2	24	0	2	24	0	2	25
50	0	3	10	0	3	10	0	3	10	0	3	11	0	3	11
60	0	3	36	0	3	36	0	3	36	0	3	37	0	3	37
70	1	0	22	1	0	22	1	0	23	1	0	23	1	0	24
80	1	1	8	1	1	8	1	1	9	1	1	9	1	1	10
90	1	1	34	1	1	34	1	1	35	1	1	36	1	1	36
100	1	2	20	1	2	20	1	2	21	1	2	22	1	2	23
110	1	3	6	1	3	6	1	3	7	1	3	8	1	3	9
120	1	3	32	1	3	32	1	3	33	1	3	34	1	3	35
130	2	0	18	2	0	19	2	0	20	2	0	21	2	0	22
140	2	1	4	2	1	5	2	1	6	2	1	7	2	1	8
150	2	1	30	2	1	31	2	1	32	2	1	33	2	1	34
160	2	2	16	2	2	17	2	2	18	2	2	19	2	2	21
170	2	3	2	2	3	3	2	3	4	2	3	6	2	3	7
180	2	3	28	2	3	29	2	3	30	2	3	32	2	3	33
190	3	0	14	3	0	15	3	0	17	3	0	18	3	0	20
200	3	1	0	3	1	1	3	1	3	3	1	4	3	1	6
210	3	1	26	3	1	27	3	1	29	3	1	31	3	1	32
220	3	2	12	3	2	13	3	2	15	3	2	17	3	2	19
230	3	2	38	3	2	39	3	3	1	3	3	3	3	3	5
240	3	3	24	3	3	25	3	3	27	3	3	29	3	3	31
250	4	0	10	4	0	12	4	0	14	4	0	16	4	0	18
260	4	0	36	4	0	38	4	1	0	4	1	2	4	1	4
270	4	1	22	4	1	24	4	1	26	4	1	28	4	1	30
280	4	2	8	4	2	10	4	2	12	4	2	14	4	2	16
290	4	2	34	4	2	36	4	2	38	4	3	0	4	3	3
300	4	3	20	4	3	22	4	3	24	4	3	27	4	3	29
400	6	2	0	6	2	3	6	2	6	6	2	9	6	2	12
500	8	0	20	8	0	24	8	0	28	8	0	32	8	0	36
600	9	3	0	9	3	4	9	3	9	9	3	14	9	3	19
700	11	1	20	11	1	25	11	1	31	11	1	36	11	2	2
800	13	0	0	13	0	6	13	0	12	13	0	19	13	0	25
900	14	2	20	14	2	27	14	2	34	14	3	1	14	3	8
1000	16	1	0	16	1	8	16	1	16	16	1	24	16	1	32

Digitized by Google

Sixteen Chains and a Half and

Width in Links.	1650			1655			1660			1665			1670		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
4	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
5	0	0	13	0	0	13	0	0	13	0	0	13	0	0	13
6	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
7	0	0	17	0	0	19	0	0	19	0	0	19	0	0	19
8	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
9	0	0	23	0	0	23	0	0	23	0	0	23	0	0	23
10	0	0	26	0	0	26	0	0	26	0	0	26	0	0	26
20	0	1	12	0	1	12	0	1	13	0	1	13	0	1	13
30	0	1	39	0	1	39	0	1	39	0	1	39	0	2	0
40	0	2	25	0	2	25	0	2	26	0	2	26	0	2	26
50	0	3	12	0	3	12	0	3	13	0	3	13	0	3	13
60	0	3	38	0	3	38	0	3	39	0	3	39	1	0	0
70	1	0	24	1	0	25	1	0	25	1	0	26	1	0	27
80	1	1	11	1	1	12	1	1	12	1	1	13	1	1	13
90	1	1	37	1	1	38	1	1	39	1	1	39	1	2	0
100	1	2	24	1	2	24	1	2	25	1	2	26	1	2	27
110	1	3	10	1	3	11	1	3	12	1	3	13	1	3	13
120	1	3	36	1	3	37	1	3	38	1	3	39	2	0	0
130	2	0	23	2	0	24	2	0	25	2	0	26	2	0	27
140	2	1	9	2	1	10	2	1	11	2	1	12	2	1	14
150	2	1	36	2	1	37	2	1	38	2	1	39	2	2	0
160	2	2	22	2	2	23	2	2	24	2	2	26	2	2	27
170	2	3	8	2	3	10	2	3	11	2	3	12	2	3	14
180	2	3	35	2	3	36	2	3	38	2	3	39	3	0	0
190	3	0	21	3	0	23	3	0	24	3	0	26	3	0	27
200	3	1	8	3	1	9	3	1	11	3	1	12	3	1	14
210	3	1	34	3	1	36	3	1	37	3	1	39	3	2	1
220	3	2	20	3	2	22	3	2	24	3	2	26	3	2	27
230	3	3	7	3	3	9	3	3	10	3	3	12	3	3	14
240	3	3	33	3	3	35	3	3	37	3	3	39	4	0	1
250	4	0	20	4	0	22	4	0	24	4	0	26	4	0	28
260	4	1	6	4	1	8	4	1	10	4	1	12	4	1	14
270	4	1	32	4	1	34	4	1	37	4	1	39	4	2	1
280	4	2	19	4	2	21	4	2	23	4	2	25	4	2	28
290	4	3	5	4	3	7	4	3	10	4	3	12	4	3	14
300	4	3	32	4	3	34	4	3	36	4	3	39	5	0	1
400	6	2	16	6	2	19	6	2	22	6	2	25	6	2	28
500	8	1	0	8	1	4	8	1	8	8	1	12	8	1	16
600	9	3	24	9	3	29	9	3	33	9	3	38	10	0	3
700	11	2	8	11	2	13	11	2	19	11	2	24	11	2	30
800	13	0	32	13	0	38	13	1	4	13	1	11	13	1	17
900	14	3	16	14	3	23	14	3	30	14	3	37	15	0	4
1000	16	2	0	16	2	8	16	2	16	16	2	24	16	2	32

Digitized by Google

under Seventeen Chains.

Width in Links.	1675			1680			1685			1690			1695		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
3	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
4	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
5	0	0	13	0	0	13	0	0	13	0	0	13	0	0	13
6	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
7	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
8	0	0	21	0	0	22	0	0	22	0	0	22	0	0	22
9	0	0	23	0	0	23	0	0	23	0	0	23	0	0	23
10	0	0	26	0	0	26	0	0	26	0	0	27	0	0	27
20	0	1	13	0	1	13	0	1	13	0	1	14	0	1	14
30	0	2	0	0	2	0	0	2	0	0	2	1	0	2	1
40	0	2	27	0	2	27	0	2	27	0	2	28	0	2	28
50	0	3	14	0	3	14	0	3	14	0	3	15	0	3	15
60	1	0	0	1	0	1	1	0	1	1	0	2	1	0	2
70	1	0	27	1	0	28	1	0	28	1	0	29	1	0	29
80	1	1	14	1	1	15	1	1	15	1	1	16	1	1	16
90	1	2	1	1	2	1	1	2	2	1	2	3	1	2	4
100	1	2	28	1	2	28	1	2	29	1	2	30	1	2	31
110	1	3	14	1	3	15	1	3	16	1	3	17	1	3	18
120	2	0	1	2	0	2	2	0	3	2	0	4	2	0	5
130	2	0	28	2	0	29	2	0	30	2	0	31	2	0	32
140	2	1	15	2	1	16	2	1	17	2	1	18	2	1	19
150	2	2	2	2	2	3	2	2	4	2	2	5	2	2	6
160	2	2	28	2	2	30	2	2	31	2	2	32	2	2	33
170	2	3	15	2	3	16	2	3	18	2	3	19	2	3	21
180	3	0	2	3	0	3	3	0	5	3	0	6	3	0	8
190	3	0	29	3	0	30	3	0	32	3	0	33	3	0	35
200	3	1	16	3	1	17	3	1	19	3	1	20	3	1	22
210	3	2	2	3	2	4	3	2	6	3	2	7	3	2	9
220	3	2	29	3	2	31	3	2	33	3	2	34	3	2	36
230	3	3	16	3	3	18	3	3	20	3	3	21	3	3	23
240	4	0	3	4	0	5	4	0	7	4	0	8	4	0	10
250	4	0	30	4	0	32	4	0	34	4	0	36	4	0	38
260	4	1	16	4	1	18	4	1	20	4	1	23	4	1	25
270	4	2	3	4	2	5	4	2	7	4	2	10	4	2	12
280	4	2	30	4	2	32	4	2	34	4	2	37	4	2	39
290	4	3	16	4	3	19	4	3	21	4	3	24	4	3	26
300	5	0	4	5	0	6	5	0	8	5	0	11	5	0	13
400	6	2	32	6	2	35	6	2	38	6	3	1	6	3	4
500	8	1	20	8	1	24	8	1	28	8	1	32	8	1	36
600	10	0	8	10	0	12	10	0	17	10	0	22	10	0	27
700	11	2	36	11	3	1	11	3	7	11	3	12	11	3	18
800	13	1	24	13	1	30	13	1	36	13	2	3	13	2	9
900	15	0	12	15	0	19	15	0	26	15	0	33	15	1	0
1000	16	3	0	16	3	8	16	3	16	16	3	24	16	3	32

Digitized by Google

Seventeen Chains and

Width in Links.	1700			1705			1710			1715			1720		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	4	0	0	4	0	0	4	0	0	4	0	0	6
3	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
4	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
5	0	0	13	0	0	13	0	0	13	0	0	13	0	0	13
6	0	0	15	0	0	15	0	0	15	0	0	15	0	0	17
7	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
8	0	0	22	0	0	22	0	0	22	0	0	22	0	0	22
9	0	0	23	0	0	25	0	0	25	0	0	25	0	0	25
10	0	0	27	0	0	27	0	0	27	0	0	27	0	0	27
20	0	1	14	0	1	14	0	1	14	0	1	14	0	1	15
30	0	2	1	0	2	1	0	2	2	0	2	2	0	2	2
40	0	2	28	0	2	29	0	2	29	0	2	29	0	2	30
50	0	3	16	0	3	16	0	3	16	0	3	17	0	3	17
60	1	0	3	1	0	3	1	0	4	1	0	4	1	0	5
70	1	0	30	1	0	30	1	0	31	1	0	32	1	0	32
80	1	1	17	1	1	18	1	1	18	1	1	19	1	1	20
90	1	2	4	1	2	5	1	2	6	1	2	6	1	2	7
100	1	2	32	1	2	32	1	2	33	1	2	34	1	2	35
110	1	3	19	1	3	20	1	3	20	1	3	21	1	3	22
120	2	0	6	2	0	7	2	0	8	2	0	9	2	0	10
130	2	0	33	2	0	34	2	0	35	2	0	36	2	0	37
140	2	1	20	2	1	21	2	1	23	2	1	24	2	1	25
150	2	2	8	2	2	9	2	2	10	2	2	11	2	2	12
160	2	2	35	2	2	36	2	2	37	2	2	39	2	3	0
170	2	3	22	2	3	23	2	3	25	2	3	26	2	3	27
180	3	0	9	3	0	11	3	0	12	3	0	13	3	0	15
190	3	0	36	3	0	38	3	0	39	3	1	1	3	1	2
200	3	1	24	3	1	25	3	1	27	3	1	28	3	1	30
210	3	2	11	3	2	12	3	2	14	3	2	16	3	2	17
220	3	2	38	3	3	0	3	3	1	3	3	3	3	3	5
230	3	3	25	3	3	27	3	3	29	3	3	31	3	3	32
240	4	0	12	4	0	14	4	0	16	4	0	18	4	0	20
250	4	1	0	4	1	2	4	1	4	4	1	6	4	1	8
260	4	1	27	4	1	29	4	1	30	4	1	33	4	1	35
270	4	2	14	4	2	16	4	2	19	4	2	20	4	2	23
280	4	3	1	4	3	3	4	3	5	4	3	8	4	3	10
290	4	3	29	4	3	31	4	3	32	4	3	35	4	3	38
300	5	0	16	5	0	18	5	0	20	5	0	23	5	0	25
400	6	3	8	6	3	11	6	3	14	6	3	17	6	3	20
500	8	2	0	8	2	4	8	2	8	8	2	12	8	2	16
600	10	0	32	10	0	36	10	1	1	10	1	6	10	1	11
700	11	3	24	11	3	29	11	3	35	12	0	0	12	0	6
800	13	2	16	13	2	22	13	2	28	13	2	35	13	3	1
900	15	1	8	15	1	15	15	1	22	15	1	29	15	1	36
1000	17	0	0	17	0	8	17	0	16	17	0	24	17	0	32

Digitized by Google

under Seventeen Chains and a Half.

Width in Links.	1725			1730			1735			1740			1745		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
3	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
4	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
5	0	0	13	0	0	13	0	0	13	0	0	13	0	0	13
6	0	0	17	0	0	17	0	0	17	0	0	17	0	0	17
7	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
8	0	0	22	0	0	22	0	0	22	0	0	22	0	0	22
9	0	0	25	0	0	25	0	0	25	0	0	25	0	0	25
10	0	0	27	0	0	27	0	0	27	0	0	27	0	0	27
20	0	1	15	0	1	15	0	1	15	0	1	15	0	1	15
30	0	2	2	0	2	3	0	2	3	0	2	3	0	2	3
40	0	2	30	0	2	30	0	2	31	0	2	31	0	2	31
50	0	3	18	0	3	18	0	3	18	0	3	19	0	3	19
60	1	0	5	1	0	6	1	0	6	1	0	7	1	0	7
70	1	0	33	1	0	33	1	0	34	1	0	34	1	0	34
80	1	1	20	1	1	21	1	1	22	1	1	22	1	1	23
90	1	2	8	1	2	9	1	2	9	1	2	10	1	2	11
100	1	2	36	1	2	36	1	2	37	1	2	38	1	2	39
110	1	3	23	1	3	24	1	3	25	1	3	26	1	3	27
120	2	0	11	2	0	12	2	0	13	2	0	14	2	0	15
130	2	0	38	2	0	39	2	1	0	2	1	1	2	1	3
140	2	1	26	2	1	27	2	1	28	2	1	29	2	1	30
150	2	2	14	2	2	15	2	2	16	2	2	17	2	2	18
160	2	3	1	2	3	2	2	3	4	2	3	5	2	3	6
170	2	3	29	2	3	30	2	3	31	2	3	33	2	3	34
180	3	0	16	3	0	18	3	0	19	3	0	21	3	0	22
190	3	1	4	3	1	5	3	1	7	3	1	8	3	1	10
200	3	1	32	3	1	33	3	1	35	3	1	36	3	1	38
210	3	2	19	3	2	21	3	2	22	3	2	24	3	2	26
220	3	3	7	3	3	8	3	3	10	3	3	12	3	3	14
230	3	3	34	3	3	36	3	3	38	4	0	0	4	0	2
240	4	0	22	4	0	24	4	0	26	4	0	28	4	0	30
250	4	1	10	4	1	12	4	1	14	4	1	16	4	1	18
260	4	1	37	4	1	39	4	2	1	4	2	3	4	2	6
270	4	2	25	4	2	27	4	2	29	4	2	31	4	2	34
280	4	3	12	4	3	15	4	3	17	4	3	19	4	3	22
290	5	0	0	5	0	2	5	0	4	5	0	7	5	0	10
300	5	0	28	5	0	30	5	0	32	5	0	35	5	0	38
400	6	3	24	6	3	27	6	3	30	6	3	33	6	3	37
500	8	2	20	8	2	24	8	2	28	8	2	32	8	2	36
600	10	1	16	10	1	20	10	1	25	10	1	30	10	1	35
700	12	0	12	12	0	17	12	0	23	12	0	28	12	0	34
800	13	3	8	13	3	14	13	3	20	13	3	27	13	3	34
900	15	2	4	15	2	11	15	2	18	15	2	25	15	2	33
1000	17	1	0	17	1	8	17	1	16	17	1	24	17	1	32

Digitized by Google

Seventeen Chains and a Half and

Width in Links.	1750			1755			1760			1765			1770		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
3	0	0	7	0	0	7	0	0	7	0	0	7	0	0	7
4	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
5	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
6	0	0	17	0	0	17	0	0	17	0	0	17	0	0	17
7	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
8	0	0	22	0	0	22	0	0	22	0	0	22	0	0	22
9	0	0	25	0	0	25	0	0	25	0	0	25	0	0	25
10	0	0	28	0	0	28	0	0	28	0	0	28	0	0	28
20	0	1	16	0	1	16	0	1	16	0	1	16	0	1	16
30	0	2	4	0	2	4	0	2	4	0	2	4	0	2	4
40	0	2	32	0	2	32	0	2	32	0	2	32	0	2	33
50	0	3	20	0	3	20	0	3	20	0	3	21	0	3	21
60	1	0	8	1	0	8	1	0	8	1	0	9	1	0	9
70	1	0	36	1	0	36	1	0	37	1	0	37	1	0	38
80	1	1	24	1	1	24	1	1	25	1	1	25	1	1	26
90	1	2	12	1	2	12	1	2	13	1	2	14	1	2	15
100	1	3	0	1	3	0	1	3	1	1	3	2	1	3	3
110	1	3	28	1	3	28	1	3	29	1	3	30	1	3	31
120	2	0	16	2	0	16	2	0	17	2	0	18	2	0	19
130	2	1	4	2	1	5	2	1	6	2	1	7	2	1	8
140	2	1	32	2	1	33	2	1	34	2	1	35	2	1	36
150	2	2	20	2	2	21	2	2	22	2	2	23	2	2	24
160	2	3	8	2	3	9	2	3	10	2	3	11	2	3	13
170	2	3	36	2	3	37	2	3	38	3	0	0	3	0	1
180	3	0	24	3	0	25	3	0	26	3	0	28	3	0	29
190	3	1	12	3	1	13	3	1	15	3	1	16	3	1	18
200	3	2	0	3	2	1	3	2	3	3	2	4	3	2	6
210	3	2	28	3	2	30	3	2	31	3	2	33	3	2	34
220	3	3	16	3	3	18	3	3	19	3	3	21	3	3	22
230	4	0	4	4	0	6	4	0	7	4	0	9	4	0	10
240	4	0	32	4	0	34	4	0	35	4	0	37	4	1	0
250	4	1	20	4	1	22	4	1	24	4	1	26	4	1	28
260	4	2	8	4	2	11	4	2	12	4	2	13	4	2	15
270	4	2	36	4	2	39	4	3	0	4	3	2	4	3	5
280	4	3	24	4	3	27	4	3	28	4	3	30	4	3	32
290	5	0	12	5	0	15	5	0	16	5	0	18	5	0	20
300	5	1	0	5	1	3	5	1	4	5	1	6	5	1	10
400	7	0	0	7	0	3	7	0	6	7	0	9	7	0	12
500	8	3	0	8	3	4	8	3	8	8	3	12	8	3	16
600	10	2	0	10	2	4	10	2	9	10	2	14	10	2	19
700	12	1	0	12	1	5	12	1	10	12	1	16	12	1	22
800	14	0	0	14	0	6	14	0	12	14	0	19	14	0	25
900	15	3	0	15	3	7	15	3	14	15	3	21	15	3	28
1000	17	2	0	17	2	8	17	2	16	17	2	24	17	2	32

Digitized by Google

under Eighteen Chains.

Width in Links.	1775			1780			1785			1790			1795		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
2	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
3	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
4	0	0	11	0	0	11	0	0	11	0	0	11	0	0	11
5	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
6	0	0	17	0	0	17	0	0	17	0	0	17	0	0	17
7	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
8	0	0	22	0	0	22	0	0	22	0	0	22	0	0	22
9	0	0	25	0	0	25	0	0	25	0	0	25	0	0	25
10	0	0	28	0	0	28	0	0	28	0	0	28	0	0	28
20	0	1	16	0	1	16	0	1	17	0	1	17	0	1	17
30	0	2	5	0	2	5	0	2	5	0	2	5	0	2	6
40	0	2	33	0	2	33	0	2	34	0	2	34	0	2	34
50	0	3	22	0	3	22	0	3	22	0	3	23	0	3	23
60	1	0	10	1	0	10	1	0	11	1	0	11	1	0	12
70	1	0	38	1	0	39	1	0	39	1	1	0	1	1	1
80	1	1	27	1	1	27	1	1	28	1	1	29	1	1	29
90	1	2	15	1	2	16	1	2	17	1	2	17	1	2	18
100	1	3	4	1	3	4	1	3	5	1	3	6	1	3	7
110	1	3	32	1	3	33	1	3	34	1	3	35	1	3	35
120	2	0	20	2	0	21	2	0	22	2	0	23	2	0	24
130	2	1	9	2	1	10	2	1	11	2	1	12	2	1	13
140	2	1	37	2	1	38	2	1	39	2	2	0	2	2	2
150	2	2	26	2	2	27	2	2	28	2	2	29	2	2	31
160	2	3	14	2	3	15	2	3	16	2	3	18	2	3	19
170	3	0	2	3	0	4	3	0	5	3	0	6	3	0	8
180	3	0	31	3	0	32	3	0	34	3	0	35	3	0	37
190	3	1	19	3	1	21	3	1	22	3	1	24	3	1	25
200	3	2	8	3	2	9	3	2	11	3	2	12	3	2	14
210	3	2	36	3	2	38	3	2	39	3	3	1	3	3	3
220	3	3	24	3	3	26	3	3	28	3	3	30	3	3	32
230	4	0	13	4	0	15	4	0	16	4	0	18	4	0	20
240	4	1	1	4	1	3	4	1	5	4	1	7	4	1	9
250	4	1	30	4	1	32	4	1	34	4	1	36	4	1	38
260	4	2	18	4	2	20	4	2	22	4	2	24	4	2	26
270	4	3	6	4	3	8	4	3	11	4	3	13	4	3	15
280	4	3	35	4	3	37	4	3	39	5	0	1	5	0	4
290	5	0	23	5	0	25	5	0	28	5	0	30	5	0	33
300	5	1	12	5	1	14	5	1	16	5	1	19	5	1	21
400	7	0	16	7	0	19	7	0	22	7	0	25	7	0	28
500	8	3	20	8	3	24	8	3	28	8	3	32	8	3	36
600	10	2	24	10	2	28	10	2	33	10	2	37	10	3	3
700	12	1	28	12	1	33	12	1	39	12	2	4	12	2	10
800	14	0	32	14	0	38	14	1	4	14	1	11	14	1	17
900	15	3	36	16	0	3	16	0	10	16	0	17	16	0	24
1000	17	3	0	17	3	8	17	3	16	17	3	24	17	3	32

Digitized by Google

Eighteen Chains and

Width in Links.	1800			1805			1810			1815			1820		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
2	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
3	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
4	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
5	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
6	0	0	17	0	0	17	0	0	17	0	0	17	0	0	17
7	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
8	0	0	22	0	0	22	0	0	22	0	0	22	0	0	22
9	0	0	25	0	0	25	0	0	25	0	0	25	0	0	25
10	0	0	28	0	0	28	0	0	28	0	0	29	0	0	29
20	0	1	17	0	1	17	0	1	17	0	1	18	0	1	18
30	0	2	6	0	2	6	0	2	6	0	2	7	0	2	7
40	0	2	35	0	2	35	0	2	35	0	2	36	0	2	36
50	0	3	24	0	3	24	0	3	24	0	3	25	0	3	25
60	1	0	12	1	0	13	1	0	13	1	0	14	1	0	14
70	1	1	1	1	1	2	1	1	2	1	1	3	1	1	3
80	1	1	30	1	1	31	1	1	31	1	1	32	1	1	32
90	1	2	19	1	2	19	1	2	20	1	2	21	1	2	22
100	1	3	8	1	3	8	1	3	9	1	3	10	1	3	11
110	1	3	36	1	3	37	1	3	38	1	3	39	2	0	0
120	2	0	25	2	0	26	2	0	27	2	0	28	2	0	29
130	2	1	14	2	1	15	2	1	16	2	1	17	2	1	18
140	2	2	3	2	2	4	2	2	5	2	2	6	2	2	7
150	2	2	32	2	2	33	2	2	34	2	2	35	2	2	36
160	2	3	20	2	3	22	2	3	23	2	3	24	2	3	25
170	3	0	9	3	0	11	3	0	12	3	0	13	3	0	15
180	3	0	38	3	0	39	3	1	1	3	1	2	3	1	4
190	3	1	27	3	1	28	3	1	30	3	1	31	3	1	33
200	3	2	16	3	2	17	3	2	19	3	2	20	3	2	22
210	3	3	4	3	3	6	3	3	8	3	3	9	3	3	11
220	3	3	32	3	3	35	3	3	37	3	3	38	4	0	0
230	4	0	22	4	0	24	4	0	26	4	0	27	4	0	29
240	4	1	11	4	1	13	4	1	15	4	1	16	4	1	18
250	4	2	0	4	2	2	4	2	4	4	2	6	4	2	8
260	4	2	28	4	2	30	4	2	32	4	2	35	4	2	37
270	4	3	17	4	3	19	4	3	21	4	3	24	4	3	26
280	5	0	6	5	0	8	5	0	10	5	0	13	5	0	15
290	5	0	35	5	0	37	5	0	39	5	1	2	5	1	4
300	5	1	24	5	1	26	5	1	28	5	1	31	5	1	33
400	7	0	32	7	0	35	7	0	38	7	1	1	7	1	4
500	9	0	0	9	0	4	9	0	8	9	0	12	9	0	16
600	10	3	8	10	3	12	10	3	17	10	3	22	10	3	27
700	12	2	16	12	2	21	12	2	27	12	2	32	12	2	38
800	14	1	24	14	1	30	14	1	36	14	2	3	14	2	9
900	16	0	32	16	0	39	16	1	6	16	1	13	16	1	20
1000	18	0	0	18	0	8	18	0	16	18	0	24	18	0	32

Digitized by Google

under Eighteen Chains and a Half.

Width in Links.	1825			1830			1835			1840			1845		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
2	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
3	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
4	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
5	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
6	0	0	17	0	0	17	0	0	17	0	0	17	0	0	17
7	0	0	19	0	0	19	0	0	21	0	0	21	0	0	21
8	0	0	22	0	0	22	0	0	22	0	0	24	0	0	24
9	0	0	25	0	0	25	0	0	25	0	0	25	0	0	27
10	0	0	29	0	0	29	0	0	29	0	0	29	0	0	29
20	0	1	18	0	1	18	0	1	18	0	1	18	0	1	19
30	0	2	7	0	2	7	0	2	8	0	2	8	0	2	8
40	0	2	36	0	2	37	0	2	37	0	2	37	0	2	38
50	0	3	26	0	3	26	0	3	26	0	3	27	0	3	27
60	1	0	15	1	0	15	1	0	16	1	0	16	1	0	17
70	1	1	4	1	1	4	1	1	5	1	1	6	1	1	6
80	1	1	33	1	1	34	1	1	34	1	1	35	1	1	36
90	1	2	22	1	2	23	1	2	24	1	2	24	1	2	25
100	1	3	12	1	3	12	1	3	13	1	3	14	1	3	15
110	2	0	1	2	0	2	2	0	2	2	0	3	2	0	4
120	2	0	30	2	0	31	2	0	32	2	0	33	2	0	34
130	2	1	19	2	1	20	2	1	21	2	1	22	2	1	23
140	2	2	8	2	2	9	2	2	11	2	2	12	2	2	13
150	2	2	38	2	2	39	2	3	0	2	3	1	2	3	2
160	2	3	27	2	3	28	2	3	29	2	3	31	2	3	32
170	3	0	16	3	0	17	3	0	18	3	0	20	3	0	21
180	3	1	5	3	1	7	3	1	8	3	1	9	3	1	11
190	3	1	34	3	1	36	3	1	37	3	1	38	3	2	0
200	3	2	24	3	2	25	3	2	26	3	2	29	3	2	30
210	3	3	13	3	3	14	3	3	16	3	3	17	3	3	19
220	4	0	2	4	0	4	4	0	5	4	0	8	4	0	9
230	4	0	31	4	0	33	4	0	34	4	0	36	4	0	38
240	4	1	20	4	1	22	4	1	24	4	1	27	4	1	28
250	4	2	10	4	2	12	4	2	14	4	2	16	4	2	18
260	4	2	39	4	3	1	4	3	2	4	3	4	4	3	7
270	4	3	28	4	3	30	4	3	32	4	3	35	4	3	37
280	5	0	17	5	0	19	5	0	21	5	0	23	5	0	26
290	5	1	6	5	1	9	5	1	11	5	1	13	5	1	16
300	5	1	36	5	1	38	5	2	0	5	2	2	5	2	5
400	7	1	8	7	1	11	7	1	14	7	1	17	7	1	20
500	9	0	20	9	0	24	9	0	28	9	0	32	9	0	36
600	10	3	32	10	3	36	11	0	1	11	0	6	11	0	11
700	12	3	4	12	3	9	12	3	15	12	3	20	12	3	26
800	14	2	16	14	2	22	14	2	28	14	2	35	14	3	1
900	16	1	28	16	1	35	16	2	2	16	2	9	16	2	16
1000	18	1	0	18	1	8	18	1	16	18	1	24	18	1	32

Google

Eighteen Chains and a Half and

Width in Links.	1850			1855			1860			1865			1870		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
2	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
3	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
4	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
5	0	0	14	0	0	14	0	0	14	0	0	14	0	0	14
6	0	0	17	0	0	17	0	0	17	0	0	17	0	0	17
7	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
8	0	0	24	0	0	24	0	0	24	0	0	24	0	0	24
9	0	0	27	0	0	27	0	0	27	0	0	27	0	0	27
10	0	0	29	0	0	29	0	0	29	0	0	29	0	0	29
20	0	1	19	0	1	19	0	1	19	0	1	19	0	1	19
30	0	2	8	0	2	9	0	2	9	0	2	9	0	2	9
40	0	2	38	0	2	38	0	2	39	0	2	39	0	2	39
50	0	3	28	0	3	28	0	3	28	0	3	29	0	3	29
60	1	0	17	1	0	18	1	0	18	1	0	19	1	0	19
70	1	1	7	1	1	7	1	1	8	1	1	8	1	1	9
80	1	1	36	1	1	37	1	1	38	1	1	38	1	1	39
90	1	2	26	1	2	27	1	2	27	1	2	28	1	2	29
100	1	3	16	1	3	16	1	3	17	1	3	18	1	3	19
110	2	0	5	2	0	6	2	0	7	2	0	8	2	0	9
120	2	0	35	2	0	36	2	0	37	2	0	37	2	0	38
130	2	1	24	2	1	25	2	1	26	2	1	27	2	1	28
140	2	2	14	2	2	15	2	2	16	2	2	17	2	2	18
150	2	3	4	2	3	5	2	3	6	2	3	7	2	3	8
160	2	3	33	2	3	34	2	3	36	2	3	37	2	3	38
170	3	0	23	3	0	24	3	0	25	3	0	27	3	0	28
180	3	1	12	3	1	14	3	1	15	3	1	16	3	1	18
190	3	2	2	3	2	3	3	2	5	3	2	6	3	2	8
200	3	2	32	3	2	33	3	2	35	3	2	36	3	2	38
210	3	3	21	3	3	23	3	3	24	3	3	26	3	3	28
220	4	0	11	4	0	12	4	0	14	4	0	16	4	0	18
230	4	1	0	4	1	2	4	1	4	4	1	6	4	1	8
240	4	1	30	4	1	32	4	1	34	4	1	35	4	1	38
250	4	2	20	4	2	22	4	2	24	4	2	26	4	2	28
260	4	3	9	4	3	11	4	3	13	4	3	15	4	3	17
270	4	3	39	5	0	1	5	0	3	5	0	5	5	0	7
280	5	0	28	5	0	31	5	0	33	5	0	35	5	0	37
290	5	1	18	5	1	20	5	1	23	5	1	25	5	1	27
300	5	2	8	5	2	10	5	2	12	5	2	15	5	2	17
400	7	1	24	7	1	27	7	1	30	7	1	34	7	1	36
500	9	1	0	9	1	4	9	1	8	9	1	12	9	1	16
600	10	0	16	10	0	20	11	0	25	11	0	29	11	0	34
700	12	3	32	12	3	37	13	0	3	13	0	9	13	0	13
800	14	3	8	14	3	14	14	3	20	14	3	27	14	3	33
900	16	2	24	16	2	31	16	2	38	16	3	6	16	3	13
1000	18	2	0	18	2	8	18	2	16	18	2	24	18	2	32

Digitized by Google

under Nineteen Chains.

Width in Links.	1875			1880			1885			1890			1895		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
2	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
3	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
4	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
5	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
6	0	0	18	0	0	18	0	0	18	0	0	18	0	0	18
7	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
8	0	0	24	0	0	24	0	0	24	0	0	24	0	0	24
9	0	0	27	0	0	27	0	0	27	0	0	27	0	0	27
10	0	0	30	0	0	30	0	0	30	0	0	30	0	0	30
20	0	1	20	0	1	20	0	1	20	0	1	20	0	1	20
30	0	2	10	0	2	10	0	2	10	0	2	10	0	2	10
40	0	3	0	0	3	0	0	3	0	0	3	0	0	3	1
50	0	3	30	0	3	30	0	3	30	0	3	31	0	3	31
60	1	0	20	1	0	20	1	0	20	1	0	21	1	0	21
70	1	1	10	1	1	10	1	1	11	1	1	11	1	1	12
80	1	2	0	1	2	0	1	2	1	1	2	1	1	2	2
90	1	2	30	1	2	30	1	2	31	1	2	32	1	2	32
100	1	3	20	1	3	20	1	3	21	1	3	22	1	3	23
110	2	0	10	2	0	10	2	0	11	2	0	12	2	0	13
120	2	1	0	2	1	0	2	1	1	2	1	2	2	1	3
130	2	1	30	2	1	31	2	1	32	2	1	33	2	1	34
140	2	2	20	2	2	21	2	2	22	2	2	23	2	2	24
150	2	3	10	2	3	11	2	3	12	2	3	13	2	3	14
160	3	0	0	3	0	1	3	0	2	3	0	3	3	0	5
170	3	0	30	3	0	31	3	0	32	3	0	34	3	0	35
180	3	1	20	3	1	21	3	1	22	3	1	24	3	1	25
190	3	2	10	3	2	11	3	2	13	3	2	14	3	2	16
200	3	3	0	3	3	1	3	3	3	3	3	4	3	3	6
210	3	3	30	3	3	31	3	3	33	3	3	35	3	3	36
220	4	0	20	4	0	21	4	0	23	4	0	25	4	0	27
230	4	1	10	4	1	11	4	1	13	4	1	15	4	1	17
240	4	2	0	4	2	1	4	2	3	4	2	5	4	2	7
250	4	2	30	4	2	32	4	2	34	4	2	36	4	2	38
260	4	3	20	4	3	22	4	3	24	4	3	26	4	3	28
270	5	0	10	5	0	12	5	0	14	5	0	16	5	0	18
280	5	1	0	5	1	2	5	1	4	5	1	6	5	1	8
290	5	1	30	5	1	32	5	1	34	5	1	36	5	1	39
300	5	2	20	5	2	22	5	2	24	5	2	27	5	2	29
400	7	2	0	7	2	3	7	2	6	7	2	9	7	2	12
500	9	1	20	9	1	24	9	1	28	9	1	32	9	1	36
600	11	1	0	11	1	4	11	1	9	11	1	14	11	1	19
700	13	0	20	13	0	25	13	0	31	13	0	36	13	1	2
800	15	0	0	15	0	6	15	0	12	15	0	19	15	0	25
900	16	3	20	16	3	27	16	3	34	17	0	1	17	0	8
1000	18	3	0	18	3	8	18	3	16	18	3	24	18	3	32

Digitized by Google

Nineteen Chains and

Width in Links.	1900			1905			1910			1915			1920		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
2	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
3	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
4	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
5	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
6	0	0	18	0	0	18	0	0	18	0	0	18	0	0	18
7	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
8	0	0	24	0	0	24	0	0	24	0	0	24	0	0	24
9	0	0	27	0	0	27	0	0	27	0	0	27	0	0	27
10	0	0	30	0	0	30	0	0	30	0	0	30	0	0	30
20	0	1	20	0	1	20	0	1	21	0	1	21	0	1	21
30	0	2	11	0	2	11	0	2	11	0	2	11	0	2	12
40	0	3	1	0	3	1	0	3	2	0	3	2	0	3	2
50	0	3	32	0	3	32	0	3	32	0	3	33	0	3	33
60	1	0	22	1	0	22	1	0	23	1	0	23	1	0	24
70	1	1	12	1	1	13	1	1	13	1	1	14	1	1	15
80	1	2	3	1	2	3	1	2	4	1	2	5	1	2	5
90	1	2	33	1	2	34	1	2	35	1	2	35	1	2	36
100	1	3	24	1	3	24	1	3	25	1	3	26	1	3	27
110	2	0	14	2	0	15	2	0	16	2	0	17	2	0	17
120	2	1	4	2	1	5	2	1	6	2	1	7	2	1	8
130	2	1	35	2	1	36	2	1	37	2	1	38	2	1	39
140	2	2	25	2	2	26	2	2	27	2	2	28	2	2	30
150	2	3	16	2	3	17	2	3	18	2	3	19	2	3	20
160	3	0	6	3	0	7	3	0	8	3	0	10	3	0	11
170	3	0	36	3	0	38	3	0	39	3	1	0	3	1	2
180	3	1	27	3	1	28	3	1	30	3	1	31	3	1	32
190	3	2	17	3	2	19	3	2	20	3	2	22	3	2	23
200	3	3	8	3	3	9	3	3	11	3	3	12	3	3	14
210	3	3	38	4	0	0	4	0	1	4	0	3	4	0	5
220	4	0	29	4	0	30	4	0	32	4	0	34	4	0	35
230	4	1	19	4	1	21	4	1	22	4	1	24	4	1	26
240	4	2	9	4	2	11	4	2	13	4	2	15	4	2	17
250	4	3	0	4	3	2	4	3	4	4	3	6	4	3	8
260	4	3	30	4	3	32	4	3	34	4	3	36	4	3	38
270	5	0	20	5	0	22	5	0	25	5	0	27	5	0	29
280	5	1	11	5	1	13	5	1	15	5	1	17	5	1	20
290	5	2	1	5	2	3	5	2	6	5	2	8	5	2	10
300	5	2	32	5	2	34	5	2	36	5	2	39	5	3	1
400	7	2	16	7	2	19	7	2	22	7	2	25	7	2	28
500	9	2	0	9	2	4	9	2	8	9	2	12	9	2	16
600	11	1	24	11	1	28	11	1	33	11	1	38	11	2	3
700	13	1	8	13	1	13	13	1	19	13	1	24	13	1	30
800	15	0	32	15	0	38	15	1	4	15	1	11	15	1	17
900	17	0	16	17	0	23	17	0	30	17	0	37	17	1	4
1000	19	0	0	19	0	8	19	0	16	19	0	24	19	0	32

Digitized by Google

under Nineteen Chains and a Half.

Width in Links.	1925			1930			1935			1940			1945		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
2	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
3	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
4	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
5	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
6	0	0	18	0	0	18	0	0	18	0	0	18	0	0	18
7	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
8	0	0	24	0	0	24	0	0	24	0	0	24	0	0	24
9	0	0	27	0	0	27	0	0	27	0	0	27	0	0	27
10	0	0	30	0	0	30	0	0	30	0	0	31	0	0	31
20	0	1	21	0	1	21	0	1	21	0	1	22	0	1	22
30	0	2	12	0	2	12	0	2	12	0	2	13	0	2	13
40	0	3	3	0	3	3	0	3	3	0	3	4	0	3	4
50	0	3	34	0	3	34	0	3	35	0	3	35	0	3	35
60	1	0	25	1	0	25	1	0	25	1	0	26	1	0	26
70	1	1	15	1	1	16	1	1	16	1	1	17	1	1	17
80	1	2	6	1	2	6	1	2	7	1	2	8	1	2	8
90	1	2	37	1	2	37	1	2	38	1	2	39	1	3	0
100	1	3	28	1	3	28	1	3	29	1	3	30	1	3	31
110	2	0	18	2	0	19	2	0	20	2	0	21	2	0	22
120	2	1	9	2	1	10	2	1	11	2	1	12	2	1	13
130	2	2	0	2	2	1	2	2	2	2	2	3	2	2	4
140	2	2	31	2	2	32	2	2	33	2	2	34	2	2	35
150	2	3	22	2	3	23	2	3	24	2	3	25	2	3	26
160	3	0	12	3	0	14	3	0	15	3	0	16	3	0	17
170	3	1	3	3	1	5	3	1	6	3	1	7	3	1	9
180	3	1	34	3	1	35	3	1	37	3	1	38	3	2	0
190	3	2	25	3	2	26	3	2	28	3	2	29	3	2	31
200	3	3	16	3	3	17	3	3	19	3	3	20	3	3	22
210	4	0	6	4	0	8	4	0	10	4	0	11	4	0	13
220	4	0	37	4	0	39	4	1	1	4	1	2	4	1	4
230	4	1	28	4	1	30	4	1	32	4	1	33	4	1	35
240	4	2	19	4	2	21	4	2	23	4	2	25	4	2	26
250	4	3	10	4	3	12	4	3	14	4	3	16	4	3	18
260	5	0	0	5	0	2	5	0	4	5	0	7	5	0	9
270	5	0	31	5	0	33	5	0	35	5	0	38	5	1	0
280	5	1	22	5	1	24	5	1	26	5	1	29	5	1	31
290	5	2	13	5	2	15	5	2	17	5	2	20	5	2	22
300	5	3	4	5	3	6	5	3	8	5	3	11	5	3	13
400	7	2	32	7	2	35	7	2	38	7	3	1	7	3	4
500	9	2	20	9	2	24	9	2	28	9	2	32	9	2	36
600	11	2	8	11	2	12	11	2	17	11	2	22	11	2	27
700	13	1	36	13	2	2	13	2	7	13	2	12	13	2	18
800	15	1	24	15	1	29	15	1	36	15	2	3	15	2	9
900	17	1	12	17	1	18	17	1	26	17	1	33	17	2	0
1000	19	1	0	19	1	8	19	1	16	19	1	24	19	1	32

Digitized by Google

Nineteen Chains and a Half and

Width in Links.	1950			1955			1960			1965			1970		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
2	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
3	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
4	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
5	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
6	0	0	18	0	0	18	0	0	18	0	0	18	0	0	18
7	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
8	0	0	24	0	0	24	0	0	24	0	0	24	0	0	24
9	0	0	27	0	0	27	0	0	27	0	0	27	0	0	27
10	0	0	31	0	0	31	0	0	31	0	0	31	0	0	31
20	0	1	22	0	1	22	0	1	22	0	1	22	0	1	23
30	0	2	13	0	2	13	0	2	14	0	2	14	0	2	14
40	0	3	4	0	3	5	0	3	5	0	3	5	0	3	6
50	0	3	36	0	3	36	0	3	36	0	3	37	0	3	37
60	1	0	27	1	0	27	1	0	28	1	0	28	1	0	29
70	1	1	18	1	1	18	1	1	19	1	1	20	1	1	20
80	1	2	9	1	2	10	1	2	10	1	2	11	1	2	12
90	1	3	0	1	3	1	1	3	2	1	3	2	1	3	3
100	1	3	32	1	3	32	1	3	33	1	3	34	1	3	35
110	2	0	23	2	0	24	2	0	24	2	0	25	2	0	26
120	2	1	14	2	1	15	2	1	16	2	1	17	2	1	18
130	2	2	5	2	2	6	2	2	7	2	2	8	2	2	9
140	2	2	36	2	2	37	2	2	39	2	2	39	2	3	1
150	2	3	28	2	3	29	2	3	30	2	3	31	2	3	32
160	3	0	19	3	0	20	3	0	21	3	0	22	3	0	24
170	3	1	10	3	1	11	3	1	13	3	1	14	3	1	15
180	3	2	1	3	2	3	3	2	4	3	2	5	3	2	7
190	3	2	32	3	2	34	3	2	35	3	2	37	3	2	38
200	3	3	24	3	3	25	3	3	27	3	3	28	3	3	30
210	4	0	15	4	0	16	4	0	18	4	0	20	4	0	21
220	4	1	6	4	1	8	4	1	9	4	1	11	4	1	13
230	4	1	37	4	1	39	4	2	1	4	2	2	4	2	4
240	4	2	28	4	2	30	4	2	32	4	2	34	4	2	36
250	4	3	20	4	3	22	4	3	24	4	3	26	4	3	28
260	5	0	11	5	0	13	5	0	15	5	0	17	5	0	19
270	5	1	2	5	1	4	5	1	6	5	1	8	5	1	11
280	5	1	33	5	1	35	5	1	38	5	2	0	5	2	2
290	5	2	24	5	2	27	5	2	29	5	2	31	5	2	34
300	5	3	16	5	3	18	5	3	20	5	3	23	5	3	25
400	7	3	8	7	3	11	7	3	14	7	3	17	7	3	20
500	9	3	0	9	3	4	9	3	8	9	3	12	9	3	16
600	11	2	32	11	2	36	11	3	1	11	3	6	11	3	11
700	13	2	24	13	2	29	13	2	35	13	3	0	13	3	6
800	15	2	16	15	2	22	15	2	28	15	2	35	15	3	1
900	17	2	8	17	2	15	17	2	22	17	2	29	17	2	37
1000	19	2	0	19	2	8	19	2	16	19	2	24	19	2	32

Digitized by Google

under Twenty Chains.

Width in Links.	1975			1980			1985			1990			1995		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
2	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
3	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
4	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
5	0	0	15	0	0	15	0	0	15	0	0	15	0	0	15
6	0	0	18	0	0	18	0	0	18	0	0	18	0	0	18
7	0	0	21	0	0	21	0	0	21	0	0	21	0	0	21
8	0	0	24	0	0	24	0	0	24	0	0	24	0	0	24
9	0	0	27	0	0	27	0	0	27	0	0	27	0	0	27
10	0	0	31	0	0	31	0	0	31	0	0	31	0	0	31
20	0	1	23	0	1	23	0	1	23	0	1	23	0	1	23
30	0	2	14	0	2	15	0	2	15	0	2	15	0	2	15
40	0	3	6	0	3	6	0	3	7	0	3	7	0	3	7
50	0	3	38	0	3	38	0	3	38	0	3	39	0	3	39
60	1	0	29	1	0	30	1	0	30	1	0	31	1	0	31
70	1	1	21	1	1	21	1	1	22	1	1	22	1	1	23
80	1	2	12	1	2	13	1	2	14	1	2	14	1	2	15
90	1	3	4	1	3	5	1	3	5	1	3	6	1	3	7
100	1	3	36	1	3	36	1	3	37	1	3	38	1	3	39
110	2	0	27	2	0	28	2	0	29	2	0	30	2	0	31
120	2	1	19	2	1	20	2	1	21	2	1	22	2	1	23
130	2	2	10	2	2	11	2	2	12	2	2	13	2	2	14
140	2	3	2	2	3	3	2	3	4	2	3	5	2	3	6
150	2	3	34	2	3	35	2	3	36	2	3	37	2	3	38
160	3	0	25	3	0	26	3	0	28	3	0	29	3	0	30
170	3	1	17	3	1	18	3	1	19	3	1	21	3	1	22
180	3	2	8	3	2	10	3	2	11	3	2	13	3	2	14
190	3	3	0	3	3	1	3	3	3	3	3	4	3	3	6
200	3	3	32	3	3	33	3	3	35	3	3	36	3	3	38
210	4	0	23	4	0	25	4	0	26	4	0	28	4	0	30
220	4	1	15	4	1	16	4	1	18	4	1	20	4	1	22
230	4	2	6	4	2	8	4	2	10	4	2	12	4	2	14
240	4	2	38	4	3	0	4	3	2	4	3	4	4	3	6
250	4	3	30	4	3	32	4	3	34	4	3	36	4	3	38
260	5	0	21	5	0	23	5	0	25	5	0	27	5	0	29
270	5	1	13	5	1	15	5	1	17	5	1	19	5	1	21
280	5	2	4	5	2	6	5	2	9	5	2	11	5	2	13
290	5	2	36	5	2	38	5	3	1	5	3	3	5	3	5
300	5	3	28	5	3	30	5	3	32	5	3	35	5	3	37
400	7	3	24	7	3	27	7	3	30	7	3	33	7	3	36
500	9	3	20	9	3	24	9	3	28	9	3	32	9	3	36
600	11	3	16	11	3	20	11	3	25	11	3	30	11	3	35
700	13	3	12	13	3	17	13	3	23	13	3	28	13	3	34
800	15	3	8	15	3	14	15	3	20	15	3	27	15	3	33
900	17	3	4	17	3	11	17	3	18	17	3	25	17	3	32
1000	19	3	0	19	3	8	19	3	16	19	3	24	19	3	32

Digitized by Google

Twenty Chains and

Width in Links.	2000			2005			2010			2015			2020		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
2	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
3	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
4	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
5	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
6	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
7	0	0	22	0	0	22	0	0	22	0	0	22	0	0	22
8	0	0	25	0	0	25	0	0	25	0	0	25	0	0	25
9	0	0	28	0	0	28	0	0	28	0	0	28	0	0	28
10	0	0	32	0	0	32	0	0	32	0	0	32	0	0	32
20	0	1	24	0	1	24	0	1	24	0	1	24	0	1	24
30	0	2	16	0	2	16	0	2	16	0	2	16	0	2	16
40	0	3	8	0	3	8	0	3	8	0	3	8	0	3	9
50	1	0	0	1	0	0	1	0	0	1	0	1	1	0	1
60	1	0	32	1	0	32	1	0	32	1	0	33	1	0	33
70	1	1	24	1	1	24	1	1	25	1	1	25	1	1	26
80	1	2	16	1	2	16	1	2	17	1	2	17	1	2	18
90	1	3	8	1	3	8	1	3	9	1	3	10	1	3	10
100	2	0	0	2	0	0	2	0	1	2	0	2	2	0	3
110	2	0	32	2	0	32	2	0	33	2	0	34	2	0	35
120	2	1	24	2	1	24	2	1	25	2	1	26	2	1	27
130	2	2	16	2	2	17	2	2	18	2	2	19	2	2	20
140	2	3	8	2	3	9	2	3	10	2	3	11	2	3	12
150	3	0	0	3	0	1	3	0	2	3	0	3	3	0	4
160	3	0	32	3	0	33	3	0	34	3	0	35	3	0	37
170	3	1	24	3	1	25	3	1	26	3	1	28	3	1	29
180	3	2	16	3	2	17	3	2	18	3	2	20	3	2	21
190	3	3	8	3	3	9	3	3	11	3	3	12	3	3	14
200	4	0	0	4	0	1	4	0	3	4	0	4	4	0	6
210	4	0	32	4	0	33	4	0	35	4	0	37	4	0	38
220	4	1	24	4	1	25	4	1	27	4	1	29	4	1	31
230	4	2	16	4	2	17	4	2	19	4	2	21	4	2	23
240	4	3	8	4	3	9	4	3	11	4	3	13	4	3	15
250	5	0	0	5	0	2	5	0	4	5	0	6	5	0	8
260	5	0	32	5	0	34	5	0	36	5	0	37	5	1	0
270	5	1	24	5	1	26	5	1	28	5	1	30	5	1	32
280	5	2	16	5	2	18	5	2	20	5	2	22	5	2	24
290	5	3	8	5	3	10	5	3	12	5	3	14	5	3	17
300	6	0	0	6	0	2	6	0	4	6	0	6	6	0	9
400	8	0	0	8	0	3	8	0	6	8	0	9	8	0	12
500	10	0	0	10	0	4	10	0	8	10	0	12	10	0	16
600	12	0	0	12	0	4	12	0	9	12	0	14	12	0	19
700	14	0	0	14	0	5	14	0	11	14	0	16	14	0	22
800	16	0	0	16	0	6	16	0	12	16	0	19	16	0	25
900	18	0	0	18	0	7	18	0	14	18	0	21	18	0	28
1000	20	0	0	20	0	8	20	0	16	20	0	24	20	0	32

Digitized by Google

under Twenty Chains and a Half.

Width in Links.	2025			2030			2035			2040			2045		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
2	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
3	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
4	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
5	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
6	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
7	0	0	22	0	0	22	0	0	22	0	0	22	0	0	22
8	0	0	25	0	0	25	0	0	25	0	0	25	0	0	25
9	0	0	28	0	0	28	0	0	28	0	0	28	0	0	28
10	0	0	32	0	0	32	0	0	32	0	0	32	0	0	32
20	0	1	24	0	1	24	0	1	25	0	1	25	0	1	25
30	0	2	17	0	2	17	0	2	17	0	2	17	0	2	18
40	0	3	9	0	3	9	0	3	10	0	3	10	0	3	10
50	1	0	2	1	0	2	1	0	2	1	0	3	1	0	3
60	1	0	34	1	0	34	1	0	35	1	0	35	1	0	36
70	1	1	26	1	1	27	1	1	27	1	1	28	1	1	29
80	1	2	19	1	2	19	1	2	20	1	2	21	1	2	21
90	1	3	11	1	3	12	1	3	13	1	3	13	1	3	14
100	2	0	4	2	0	4	2	0	5	2	0	6	2	0	7
110	2	0	36	2	0	37	2	0	38	2	0	39	2	0	39
120	2	1	28	2	1	29	2	1	30	2	1	31	2	1	32
130	2	2	21	2	2	22	2	2	23	2	2	24	2	2	25
140	2	3	13	2	3	14	2	3	15	2	3	16	2	3	18
150	3	0	6	3	0	7	3	0	8	3	0	9	3	0	10
160	3	0	38	3	0	39	3	1	0	3	1	2	3	1	3
170	3	1	30	3	1	32	3	1	33	3	1	34	3	1	36
180	3	2	23	3	2	24	3	2	26	3	2	27	3	2	28
190	3	3	15	3	3	17	3	3	18	3	3	20	3	3	21
200	4	0	8	4	0	9	4	0	11	4	0	12	4	0	14
210	4	1	0	4	1	2	4	1	3	4	1	5	4	1	7
220	4	1	32	4	1	34	4	1	36	4	1	37	4	1	39
230	4	2	25	4	2	27	4	2	28	4	2	30	4	2	32
240	4	3	17	4	3	19	4	3	21	4	3	23	4	3	25
250	5	0	10	5	0	12	5	0	14	5	0	16	5	0	18
260	5	1	2	5	1	4	5	1	6	5	1	8	5	1	10
270	5	1	34	5	1	36	5	1	39	5	2	1	5	2	3
280	5	2	27	5	2	29	5	2	31	5	2	33	5	2	36
290	5	3	19	5	3	21	5	3	24	5	3	26	5	3	28
300	6	0	12	6	0	14	6	0	16	6	0	19	6	0	21
400	8	0	16	8	0	19	8	0	22	8	0	26	8	0	29
500	10	0	20	10	0	24	10	0	28	10	0	32	10	0	36
600	12	0	24	12	0	28	12	0	33	12	0	38	12	1	3
700	14	0	28	14	0	33	14	0	39	14	1	4	14	1	10
800	16	0	32	16	0	38	16	1	4	16	1	11	16	1	17
900	18	0	36	18	1	3	18	1	10	18	1	17	18	1	24
1000	20	1	0	20	1	8	20	1	16	20	1	24	20	1	32

Digitized by Google

Twenty Chains and a Half and

Width in Links.	2050			2055			2060			2065			2070		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
2	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
3	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
4	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
5	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
6	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
7	0	0	22	0	0	22	0	0	22	0	0	22	0	0	22
8	0	0	25	0	0	25	0	0	25	0	0	25	0	0	25
9	0	0	30	0	0	30	0	0	30	0	0	30	0	0	30
10	0	0	32	0	0	32	0	0	32	0	0	33	0	0	33
20	0	1	25	0	1	25	0	1	25	0	1	26	0	1	26
30	0	2	18	0	2	18	0	2	18	0	2	19	0	2	19
40	0	3	11	0	3	11	0	3	11	0	3	12	0	3	12
50	1	0	4	1	0	4	1	0	4	1	0	5	1	0	5
60	1	0	36	1	0	37	1	0	37	1	0	38	1	0	38
70	1	1	29	1	1	30	1	1	30	1	1	31	1	1	31
80	1	2	22	1	2	23	1	2	23	1	2	24	1	2	24
90	1	3	15	1	3	15	1	3	16	1	3	17	1	3	18
100	2	0	8	2	0	8	2	0	9	2	0	10	2	0	11
110	2	1	0	2	1	1	2	1	2	2	1	3	2	1	4
120	2	1	33	2	1	34	2	1	35	2	1	36	2	1	37
130	2	2	26	2	2	27	2	2	28	2	2	29	2	2	30
140	2	3	19	2	3	20	2	3	21	2	3	22	2	3	23
150	3	0	12	3	0	13	3	0	14	3	0	15	3	0	16
160	3	1	4	3	1	6	3	1	7	3	1	8	3	1	9
170	3	1	37	3	1	38	3	2	0	3	2	1	3	2	2
180	3	2	30	3	2	31	3	2	33	3	2	34	3	2	35
190	3	3	23	3	3	24	3	3	26	3	3	27	3	3	29
200	4	0	16	4	0	17	4	0	19	4	0	20	4	0	22
210	4	1	8	4	1	10	4	1	12	4	1	13	4	1	15
220	4	2	1	4	2	3	4	2	5	4	2	6	4	2	8
230	4	2	34	4	2	36	4	2	38	4	2	39	4	3	1
240	4	3	27	4	3	29	4	3	31	4	3	32	4	3	34
250	5	0	20	5	0	22	5	0	24	5	0	26	5	0	28
260	5	1	12	5	1	14	5	1	16	5	1	19	5	1	20
270	5	2	5	5	2	7	5	2	9	5	2	12	5	2	14
280	5	2	38	5	3	0	5	3	2	5	3	5	5	3	7
290	5	3	31	5	3	33	5	3	35	5	3	38	6	0	0
300	6	0	24	6	0	26	6	0	28	6	0	31	6	0	33
400	8	0	32	8	0	35	8	0	38	8	1	1	8	1	4
500	10	1	0	10	1	4	10	1	8	10	1	12	10	1	16
600	12	1	8	12	1	12	12	1	17	12	1	22	12	1	27
700	14	1	16	14	1	21	14	1	27	14	1	32	14	1	38
800	16	1	24	16	1	30	16	1	36	16	2	3	16	2	9
900	18	1	32	18	1	39	18	2	6	18	2	13	18	2	20
1000	20	2	0	20	2	8	20	2	16	20	2	24	20	2	32

Digitized by Google

under Twenty-one Chains.

Width in Links.	2075			2080			2085			2090			2095		
	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.	A.	R.	P.
1	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
2	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
3	0	0	9	0	0	9	0	0	9	0	0	9	0	0	9
4	0	0	12	0	0	12	0	0	12	0	0	12	0	0	12
5	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16
6	0	0	19	0	0	19	0	0	19	0	0	19	0	0	19
7	0	0	22	0	0	22	0	0	22	0	0	22	0	0	22
8	0	0	25	0	0	25	0	0	25	0	0	25	0	0	25
9	0	0	30	0	0	30	0	0	30	0	0	30	0	0	30
10	0	0	33	0	0	33	0	0	33	0	0	33	0	0	33
20	0	1	26	0	1	26	0	1	26	0	1	26	0	1	27
30	0	2	19	0	2	19	0	2	20	0	2	20	0	2	20
40	0	3	12	0	3	13	0	3	13	0	3	13	0	3	14
50	1	0	6	1	0	6	1	0	6	1	0	7	1	0	7
60	1	0	39	1	0	39	1	1	0	1	1	0	1	1	1
70	1	1	32	1	1	32	1	1	33	1	1	34	1	1	34
80	1	2	25	1	2	26	1	2	27	1	2	27	1	2	28
90	1	3	18	1	3	19	1	3	20	1	3	20	1	3	21
100	2	0	12	2	0	12	2	0	13	2	0	14	2	0	15
110	2	1	5	2	1	6	2	1	7	2	1	7	2	1	8
120	2	1	38	2	1	39	2	2	0	2	2	1	2	2	2
130	2	2	31	2	2	32	2	2	33	2	2	34	2	2	35
140	2	3	24	2	3	25	2	3	27	2	3	28	2	3	29
150	3	0	18	3	0	19	3	0	20	3	0	21	3	0	22
160	3	1	11	3	1	12	3	1	14	3	1	15	3	1	16
170	3	2	4	3	2	5	3	2	7	3	2	8	3	2	9
180	3	2	37	3	2	39	3	3	0	3	3	1	3	3	3
190	3	3	30	3	3	32	3	3	34	3	3	35	3	3	36
200	4	0	24	4	0	25	4	0	27	4	0	28	4	0	30
210	4	1	17	4	1	18	4	1	20	4	1	22	4	1	23
220	4	2	10	4	2	12	4	2	14	4	2	15	4	2	17
230	4	3	3	4	3	5	4	3	7	4	3	9	4	3	10
240	4	3	36	4	3	38	5	0	0	5	0	2	5	0	4
250	5	0	30	5	0	32	5	0	34	5	0	36	5	0	38
260	5	1	23	5	1	25	5	1	27	5	1	29	5	1	31
270	5	2	16	5	2	18	5	2	21	5	2	22	5	2	25
280	5	3	9	5	3	11	5	3	14	5	3	16	5	3	18
290	6	0	2	6	0	5	6	0	7	6	0	9	6	0	12
300	6	0	36	6	0	38	6	1	1	6	1	3	6	1	5
400	8	1	8	8	1	11	8	1	15	8	1	17	8	1	20
500	10	1	20	10	1	24	10	1	28	10	1	32	10	1	36
600	12	1	32	12	1	36	12	1	1	12	2	6	12	2	11
700	14	2	4	14	2	9	14	2	14	14	2	20	14	2	26
800	16	2	16	16	2	22	16	2	29	16	2	35	16	3	1
900	18	2	28	18	2	35	18	3	2	18	3	9	18	3	16
1000	20	3	0	20	3	8	20	3	16	20	3	24	20	3	32

Digitized by Google

Digitized by Google

A TABLE

FOR

THE COMPUTATION OF WORK,

BY PERCHES, ROODS, AND ACRES,

FROM 2*s.* 6*d.* TO 20*s.* AN ACRE.

Digitized by Google

From Two Shillings and Sixpence to Four Shillings per Acre.

AREA.			2s. 6d.			3s.			3s. 6d.			4s.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	0	0	0	0	0	0	0¼	0	0	0¼
0	0	2	0	0	0¼	0	0	0¼	0	0	0½	0	0	0½
0	0	3	0	0	0½	0	0	0½	0	0	0¾	0	0	1
0	0	4	0	0	0½	0	0	0¾	0	0	1	0	0	1¼
0	0	5	0	0	0¾	0	0	1	0	0	1¼	0	0	1½
0	0	6	0	0	1	0	0	1¼	0	0	1½	0	0	1¾
0	0	7	0	0	1¼	0	0	1½	0	0	1¾	0	0	2
0	0	8	0	0	1½	0	0	1¾	0	0	2	0	0	2
0	0	9	0	0	1½	0	0	2	0	0	2¼	0	0	2¾
0	0	10	0	0	1¾	0	0	2¼	0	0	2½	0	0	3
0	0	20	0	0	3¾	0	0	4½	0	0	5¼	0	0	6
0	0	30	0	0	5½	0	0	6¾	0	0	7¾	0	0	9
0	1	0	0	0	7½	0	0	9	0	0	10½	0	1	0
0	2	0	0	1	3	0	1	6	0	1	9	0	2	0
0	3	0	0	1	10½	0	2	3	0	2	7½	0	3	0
1	0	0	0	2	6	0	3	0	0	3	6	0	4	0
2	0	0	0	5	0	0	6	0	0	7	0	0	8	0
3	0	0	0	7	6	0	9	0	0	10	6	0	12	0
4	0	0	0	10	0	0	12	0	0	14	0	0	16	0
5	0	0	0	12	6	0	15	0	0	17	6	1	0	0
6	0	0	0	15	0	0	18	0	1	1	0	1	4	0
7	0	0	0	17	6	1	1	0	1	4	6	1	8	0
8	0	0	1	0	0	1	4	0	1	8	0	1	12	0
9	0	0	1	2	6	1	7	0	1	11	6	1	16	0
10	0	0	1	5	0	1	10	0	1	15	0	2	0	0
20	0	0	2	10	0	3	0	0	3	10	0	4	0	0

Digitized by Google

From Four Shillings and Sixpence to Six Shillings per Acre.

AREA.			4s. 6d.			5s.			5s. 6d.			6s.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	0¼	0	0	0¼	0	0	0¼	0	0	0½
0	0	2	0	0	0½	0	0	0¾	0	0	0¾	0	0	0¾
0	0	3	0	0	1	0	0	1¼	0	0	1¼	0	0	1¼
0	0	4	0	0	1¼	0	0	1½	0	0	1½	0	0	1¾
0	0	5	0	0	1½	0	0	1¾	0	0	2	0	0	2¼
0	0	6	0	0	2	0	0	2¼	0	0	2¼	0	0	2½
0	0	7	0	0	2½	0	0	2¾	0	0	3	0	0	3
0	0	8	0	0	2½	0	0	2¾	0	0	3¼	0	0	3¼
0	0	9	0	0	3	0	0	3½	0	0	3¾	0	0	4
0	0	10	0	0	3¼	0	0	3¾	0	0	4	0	0	4½
0	0	20	0	0	6¾	0	0	7½	0	0	8¼	0	0	9
0	0	30	0	0	10	0	0	11¼	0	1	0¼	0	1	1½
0	1	0	0	1	1½	0	1	3	0	1	4½	0	1	6
0	2	0	0	2	3	0	2	6	0	2	9	0	3	0
0	3	0	0	3	4½	0	3	9	0	4	1½	0	4	6
1	0	0	0	4	6	0	5	0	0	5	6	0	6	0
2	0	0	0	9	0	0	10	0	0	11	0	0	12	0
3	0	0	0	13	6	0	15	0	0	16	6	0	18	0
4	0	0	0	18	0	1	0	0	1	2	0	1	4	0
5	0	0	1	2	6	1	5	0	1	7	6	1	10	0
6	0	0	1	7	0	1	10	0	1	13	0	1	16	0
7	0	0	1	11	6	1	15	0	1	18	6	2	2	0
8	0	0	1	16	0	2	0	0	2	4	0	2	8	0
9	0	0	2	0	6	2	5	0	2	9	6	2	14	0
10	0	0	2	5	0	2	10	0	2	15	0	3	0	0
20	0	0	4	10	0	5	0	0	5	10	0	6	0	0

Digitized by Google

From Six Shillings and Sixpence to Eight Shillings per Acre.

AREA.			6s. 6d.			7s.			7s. 6d.			8s.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	0½	0	0	0½	0	0	0½	0	0	0½
0	0	2	0	0	0¾	0	0	1	0	0	1	0	0	1
0	0	3	0	0	1¼	0	0	1½	0	0	1¾	0	0	1¾
0	0	4	0	0	1¾	0	0	2	0	0	2¼	0	0	2½
0	0	5	0	0	2¼	0	0	2½	0	0	2¾	0	0	3
0	0	6	0	0	2½	0	0	3	0	0	3¼	0	0	3½
0	0	7	0	0	3½	0	0	3½	0	0	3½	0	0	4
0	0	8	0	0	3½	0	0	3¾	0	0	4	0	0	4¾
0	0	9	0	0	4¼	0	0	4½	0	0	4½	0	0	5½
0	0	10	0	0	4¾	0	0	5¼	0	0	5½	0	0	6
0	0	20	0	0	9¾	0	0	10½	0	0	11¼	0	1	0
0	0	30	0	1	3¾	0	1	4¾	0	1	6	0	1	6
0	1	0	0	1	7½	0	1	9	0	1	10½	0	2	0
0	2	0	0	3	3	0	3	6	0	3	9	0	4	0
0	3	0	0	4	10½	0	5	3	0	5	7½	0	6	0
1	0	0	0	6	6	0	7	0	0	7	6	0	8	0
2	0	0	0	13	0	0	14	0	0	15	0	0	16	0
3	0	0	0	19	6	1	1	0	1	2	6	1	4	0
4	0	0	1	6	0	1	8	0	1	10	0	1	12	0
5	0	0	1	12	6	1	15	0	1	17	6	2	0	0
6	0	0	1	19	0	2	2	0	2	5	0	2	8	0
7	0	0	2	5	6	2	9	0	2	12	6	2	16	0
8	0	0	2	12	0	2	16	0	3	0	0	3	4	0
9	0	0	2	18	6	3	3	0	3	7	6	3	12	0
10	0	0	3	5	0	3	10	0	3	15	0	4	0	0
20	0	0	6	10	0	7	0	0	7	10	0	8	0	0

Digitized by Google

From Eight Shillings and Sixpence to Ten Shillings per Acre.

AREA.			8s. 6d.			9s.			9s. 6d.			10s.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	0½	0	0	0½	0	0	0½	0	0	0½
0	0	2	0	0	1¼	0	0	1¼	0	0	1¼	0	0	1¼
0	0	3	0	0	1¾	0	0	1¾	0	0	1¾	0	0	1¾
0	0	4	0	0	2½	0	0	3	0	0	3	0	0	3
0	0	5	0	0	3	0	0	3½	0	0	3½	0	0	3¾
0	0	6	0	0	3½	0	0	4	0	0	4	0	0	4
0	0	7	0	0	4¼	0	0	4½	0	0	4¾	0	0	4¾
0	0	8	0	0	5	0	0	5¼	0	0	6	0	0	6¼
0	0	9	0	0	5½	0	0	5¾	0	0	6½	0	0	6¾
0	0	10	0	0	6¼	0	0	6¾	0	0	7	0	0	7½
0	0	20	0	1	0¾	0	1	1½	0	1	2¼	0	1	3
0	0	30	0	1	7	0	1	8¼	0	1	9¼	0	1	10½
0	1	0	0	2	0½	0	2	3	0	2	4½	0	2	6
0	2	0	0	4	3	0	4	6	0	4	9	0	5	0
0	3	0	0	6	4½	0	6	9	0	7	1½	0	7	6
1	0	0	0	8	6	0	9	0	0	9	6	0	10	0
2	0	0	0	17	0	0	18	0	0	19	0	1	0	0
3	0	0	1	5	6	1	7	0	1	8	6	1	10	0
4	0	0	1	14	0	1	16	0	1	18	0	2	0	0
5	0	0	2	2	6	2	5	0	2	7	6	2	10	0
6	0	0	2	11	0	2	14	0	2	17	0	3	0	0
7	0	0	2	19	6	3	3	0	3	6	6	3	10	0
8	0	0	3	8	0	3	12	0	3	16	0	4	0	0
9	0	0	3	17	6	4	1	0	4	5	6	4	10	0
10	0	0	4	5	0	4	10	0	4	15	0	5	0	0
20	0	0	8	10	0	9	0	0	9	10	0	10	0	0

Digitized by Google

From Ten Shillings and Sixpence to Twelve Shillings per Acre.

AREA.			10s. 6d.			11s.			11s. 6d.			12s.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	0¾	0	0	0¾	0	0	0¾	0	0	0¾
0	0	2	0	0	1½	0	0	1½	0	0	1½	0	0	1¾
0	0	3	0	0	2¼	0	0	2¼	0	0	2¼	0	0	2½
0	0	4	0	0	3¼	0	0	3¼	0	0	3¼	0	0	3½
0	0	5	0	0	4	0	0	4¼	0	0	4½	0	0	4½
0	0	6	0	0	4½	0	0	4½	0	0	4¾	0	0	5¼
0	0	7	0	0	5¼	0	0	5½	0	0	5½	0	0	6
0	0	8	0	0	6½	0	0	6¾	0	0	7	0	0	7¼
0	0	9	0	0	7	0	0	7	0	0	7¾	0	0	8
0	0	10	0	0	7¾	0	0	8¼	0	0	8¾	0	0	9
0	0	20	0	1	3¾	0	1	4½	0	1	5¼	0	1	6
0	0	30	0	1	11½	0	2	0¾	0	2	2	0	2	3
0	1	0	0	2	7½	0	2	9	0	2	10½	0	3	0
0	2	0	0	5	3	0	5	6	0	5	9	0	6	0
0	3	0	0	7	10½	0	8	3	0	8	7½	0	9	0
1	0	0	0	10	6	0	11	0	0	11	6	0	12	0
2	0	0	1	1	0	1	2	0	1	3	0	1	4	0
3	0	0	1	11	6	1	13	0	1	14	6	1	16	0
4	0	0	2	2	0	2	4	0	2	6	0	2	8	0
5	0	0	2	12	6	2	15	0	2	17	6	3	0	0
6	0	0	3	3	0	3	6	0	3	9	0	3	12	0
7	0	0	3	13	6	3	17	0	4	0	6	4	4	0
8	0	0	4	4	0	4	8	0	4	12	0	4	16	0
9	0	0	4	14	6	4	19	0	5	3	6	5	8	0
10	0	0	5	5	0	5	10	0	5	15	0	6	0	0
20	0	0	10	10	0	11	0	0	11	10	0	12	0	0

Digitized by Google

From Twelve Shillings and Sixpence to Fourteen Shillings per Acre.

AREA.			12s. 6d.			13s.			13s. 6d.			14s.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	0¾	0	0	0¾	0	0	1	0	0	1
0	0	2	0	0	1¾	0	0	2	0	0	2	0	0	2
0	0	3	0	0	2½	0	0	2¾	0	0	3	0	0	3
0	0	4	0	0	3¾	0	0	3¾	0	0	4	0	0	4
0	0	5	0	0	4¾	0	0	5	0	0	5	0	0	5¼
0	0	6	0	0	5½	0	0	5¾	0	0	6	0	0	6
0	0	7	0	0	6¼	0	0	6½	0	0	7	0	0	7
0	0	8	0	0	7½	0	0	7½	0	0	8	0	0	8
0	0	9	0	0	8¼	0	0	8¾	0	0	9	0	0	9
0	0	10	0	0	9¼	0	0	9¾	0	0	10	0	0	10½
0	0	20	0	1	6¾	0	1	7½	0	1	8¼	0	1	9
0	0	30	0	2	4	0	2	5¼	0	2	6¼	0	2	7½
0	1	0	0	3	1½	0	3	3	0	3	4½	0	3	6
0	2	0	0	6	3	0	6	6	0	6	9	0	7	0
0	3	0	0	9	4½	0	9	9	0	10	1½	0	10	6
1	0	0	0	12	6	0	13	0	0	13	6	0	14	0
2	0	0	1	5	0	1	6	0	1	7	0	1	8	0
3	0	0	1	17	6	1	19	0	2	0	6	2	2	0
4	0	0	2	10	0	2	12	0	2	14	0	2	16	0
5	0	0	3	2	6	3	5	0	3	7	6	3	10	0
6	0	0	3	15	0	3	18	0	4	1	0	4	4	0
7	0	0	4	7	6	4	11	0	4	14	6	4	18	0
8	0	0	5	0	0	5	4	0	5	8	0	5	12	0
9	0	0	5	12	6	5	17	0	6	1	6	6	6	0
10	0	0	6	5	0	6	10	0	6	15	0	7	0	0
20	0	0	12	10	0	13	0	0	13	10	0	14	0	0

Digitized by Google

From Fourteen Shillings and Sixpence to Sixteen Shillings per Acre.

AREA.			14s. 6d.			15s.			15s. 6d.			16s.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	1	0	0	1	0	0	1¼	0	0	1¼
0	0	2	0	0	2	0	0	2	0	0	2½	0	0	2½
0	0	3	0	0	3	0	0	3	0	0	3¾	0	0	3¾
0	0	4	0	0	4	0	0	4	0	0	4½	0	0	5
0	0	5	0	0	5¼	0	0	5½	0	0	5¾	0	0	6
0	0	6	0	0	6	0	0	6	0	0	6¼	0	0	7
0	0	7	0	0	7	0	0	7	0	0	7½	0	0	8¼
0	0	8	0	0	8	0	0	8	0	0	8¾	0	0	10
0	0	9	0	0	9	0	0	9½	0	0	10	0	0	11
0	0	10	0	0	10¾	0	0	11¼	0	0	11½	0	1	0
0	0	20	0	1	9¾	0	1	10½	0	1	11¼	0	2	0
0	0	30	0	2	8½	0	2	9¾	0	2	10¾	0	3	0
0	1	0	0	3	7½	0	3	9	0	3	10½	0	4	0
0	2	0	0	7	3	0	7	6	0	7	9	0	8	0
0	3	0	0	10	10½	0	11	3	0	11	7½	0	12	0
1	0	0	0	14	6	0	15	0	0	15	6	0	16	0
2	0	0	1	9	0	1	10	0	1	11	0	1	12	0
3	0	0	2	3	6	2	5	0	2	6	6	2	8	0
4	0	0	2	18	0	3	0	0	3	2	0	3	4	0
5	0	0	3	12	6	3	15	0	3	17	6	4	0	0
6	0	0	4	7	0	4	10	0	4	13	0	4	16	0
7	0	0	5	1	6	5	5	0	5	8	6	5	12	0
8	0	0	5	16	0	6	0	0	6	4	0	6	8	0
9	0	0	6	10	6	6	15	0	6	19	6	7	4	0
10	0	0	7	5	0	7	10	0	7	15	0	8	0	0
20	0	0	14	10	0	15	0	0	15	10	0	16	0	0

Digitized by Google

From Sixteen Shillings and Sixpence to Eighteen Shillings per Acre.

AREA.			16s. 6d.			17s.			17s. 6d.			18s.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	1¼	0	0	1¼	0	0	1¼	0	0	1¼
0	0	2	0	0	2½	0	0	2½	0	0	2½	0	0	2½
0	0	3	0	0	3¾	0	0	3¾	0	0	3¾	0	0	4
0	0	4	0	0	5	0	0	5	0	0	5	0	0	5¼
0	0	5	0	0	6	0	0	6¼	0	0	6½	0	0	6¾
0	0	6	0	0	7¼	0	0	7½	0	0	7¾	0	0	8
0	0	7	0	0	8½	0	0	8¾	0	0	9	0	0	9½
0	0	8	0	0	10¼	0	0	10½	0	0	10½	0	0	10¾
0	0	9	0	0	11	0	0	11¼	0	0	11½	0	1	0
0	0	10	0	1	0¼	0	1	0¾	0	1	1	0	1	1½
0	0	20	0	2	0¾	0	2	1½	0	2	2¼	0	2	3
0	0	30	0	3	1	0	3	2¼	0	3	3¼	0	3	4½
0	1	0	0	4	1½	0	4	3	0	4	4½	0	4	6
0	2	0	0	8	3	0	8	6	0	8	9	0	9	0
0	3	0	0	12	4½	0	12	9	0	13	1½	0	13	6
1	0	0	0	16	6	0	17	0	0	17	6	0	18	0
2	0	0	1	13	0	1	14	0	1	15	0	1	16	0
3	0	0	2	9	6	2	11	0	2	12	6	2	14	0
4	0	0	3	6	0	3	8	0	3	10	3	3	12	0
5	0	0	4	2	6	4	5	0	4	7	6	4	10	0
6	0	0	4	19	0	5	2	0	5	5	0	5	8	0
7	0	0	5	15	6	5	19	0	6	2	6	6	6	0
8	0	0	6	12	0	6	16	0	7	0	0	7	4	0
9	0	0	7	8	6	7	13	0	7	17	6	8	2	0
10	0	0	8	5	0	8	10	0	8	15	0	9	0	0
20	0	0	16	10	0	17	0	0	17	10	0	18	0	0

Digitized by Google

From Eighteen Shillings and Sixpence to Twenty Shillings per Acre.

AREA.			18s. 6d.			19s.			19s. 6d.			£1.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	1¼	0	0	1½	0	0	1½	0	0	1½
0	0	2	0	0	2¾	0	0	3	0	0	3	0	0	3
0	0	3	0	0	4¼	0	0	4½	0	0	4½	0	0	4½
0	0	4	0	0	5½	0	0	5¾	0	0	6	0	0	6
0	0	5	0	0	6¾	0	0	7	0	0	7¼	0	0	7½
0	0	6	0	0	8½	0	0	8¾	0	0	8¾	0	0	9
0	0	7	0	0	9¾	0	0	10	0	0	10¼	0	0	10½
0	0	8	0	0	11	0	0	11½	0	0	11¾	0	1	0
0	0	9	0	1	0¼	0	1	1	0	1	1¼	0	1	1½
0	0	10	0	1	1¾	0	1	2¼	0	1	2½	0	1	3
0	0	20	0	2	3¾	0	2	4½	0	2	5¼	0	2	6
0	0	30	0	3	5½	0	3	6	0	3	7¾	0	3	9
0	1	0	0	4	7½	0	4	9	0	4	10½	0	5	0
0	2	0	0	9	3	0	9	6	0	9	9	0	10	0
0	3	0	0	13	10½	0	14	3	0	14	7½	0	15	0
1	0	0	0	18	6	0	19	0	0	19	6	1	0	0
2	0	0	1	17	0	1	18	0	1	19	0	2	0	0
3	0	0	2	15	6	2	17	0	2	18	6	3	0	0
4	0	0	3	14	0	3	16	0	3	18	0	4	0	0
5	0	0	4	12	6	4	15	0	4	17	6	5	0	0
6	0	0	5	11	0	5	14	0	5	17	0	6	0	0
7	0	0	6	9	6	6	13	0	6	16	6	7	0	0
8	0	0	7	8	0	7	12	0	7	16	0	8	0	0
9	0	0	8	6	6	8	11	0	8	15	6	9	0	0
10	0	0	9	5	0	9	10	0	9	15	0	10	0	0
20	0	0	18	10	0	19	0	0	19	10	0	20	0	0

Digitized by Google

PART II.

TABLES FOR THE VALUATION OF LAND,

FROM ONE SHILLING TO ONE THOUSAND POUNDS PER ACRE, AND FROM ONE POLE TO TWO THOUSAND ACRES IN EXTENT;

ALSO,

TABLES

FOR CONVERTING THE SEVERAL PROVINCIAL ACRES INTO STATUTE MEASURE, YARDS INTO LINKS, SUPERFICIAL AND LINEAL MEASURE;

AND

A TABLE OF SQUARES AND ROOTS,

FROM ONE TO ONE HUNDRED.

Digitized by Google

Price from One to Three Shillings per Acre.

AREA.			At 1s.			At 2s.			At 3s.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	0	0	0	0	0	0	0
0	0	2	0	0	0	0	0	0¼	0	0	0¼
0	0	3	0	0	0	0	0	0¼	0	0	0½
0	0	4	0	0	0½	0	0	0½	0	0	0¾
0	0	5	0	0	0½	0	0	0¾	0	0	1
0	0	6	0	0	0½	0	0	0¾	0	0	1¼
0	0	7	0	0	0½	0	0	1	0	0	1½
0	0	8	0	0	0½	0	0	1	0	0	1¾
0	0	9	0	0	0½	0	0	1¼	0	0	2
0	0	10	0	0	0¾	0	0	1½	0	0	2¼
0	0	20	0	0	1½	0	0	3	0	0	4½
0	0	30	0	0	2½	0	0	4½	0	0	6¾
0	1	0	0	0	3	0	0	6	0	0	9
0	2	0	0	0	6	0	1	0	0	1	6
0	3	0	0	0	9	0	1	6	0	2	3
1	0	0	0	1	0	0	2	0	0	3	0
2	0	0	0	2	0	0	4	0	0	6	0
3	0	0	0	3	0	0	6	0	0	9	0
4	0	0	0	4	0	0	8	0	0	12	0
5	0	0	0	5	0	0	10	0	0	15	0
6	0	0	0	6	0	0	12	0	0	18	0
7	0	0	0	7	0	0	14	0	1	1	0
8	0	0	0	8	0	0	16	0	1	4	0
9	0	0	0	9	0	0	18	0	1	7	0
10	0	0	0	10	0	1	0	0	1	10	0
20	0	0	1	0	0	2	0	0	3	0	0
30	0	0	1	10	0	3	0	0	4	10	0
40	0	0	2	0	0	4	0	0	6	0	0
50	0	0	2	10	0	5	0	0	7	10	0
60	0	0	3	0	0	6	0	0	9	0	0
70	0	0	3	10	0	7	0	0	10	10	0
80	0	0	4	0	0	8	0	0	12	0	0
90	0	0	4	10	0	9	0	0	13	10	0
100	0	0	5	0	0	10	0	0	15	0	0
200	0	0	10	0	0	20	0	0	30	0	0
300	0	0	15	0	0	30	0	0	45	0	0
400	0	0	20	0	0	40	0	0	60	0	0
500	0	0	25	0	0	50	0	0	75	0	0
1000	0	0	50	0	0	100	0	0	150	0	0
2000	0	0	100	0	0	200	0	0	300	0	0

Digitized by Google

Price from Four to Six Shillings per Acre.

AREA.			At 4s.			At 5s.			At 6s.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	0¼	0	0	0¼	0	0	0¼
0	0	2	0	0	0½	0	0	0¾	0	0	0¾
0	0	3	0	0	0¾	0	0	1	0	0	1¼
0	0	4	0	0	1	0	0	1½	0	0	1¾
0	0	5	0	0	1½	0	0	1¾	0	0	2¼
0	0	6	0	0	1¾	0	0	2¼	0	0	2½
0	0	7	0	0	2	0	0	2½	0	0	3
0	0	8	0	0	2¼	0	0	3	0	0	3½
0	0	9	0	0	2½	0	0	3¼	0	0	4
0	0	10	0	0	3	0	0	3¾	0	0	4½
0	0	20	0	0	6	0	0	7½	0	0	9
0	0	30	0	0	9	0	0	11¼	0	1	1½
0	1	0	0	1	0	0	1	3	0	1	6
0	2	0	0	2	0	0	2	6	0	3	0
0	3	0	0	3	0	0	3	9	0	4	6
1	0	0	0	4	0	0	5	0	0	6	0
2	0	0	0	8	0	0	10	0	0	12	0
3	0	0	0	12	0	0	15	0	0	18	0
4	0	0	0	16	0	1	0	0	1	4	0
5	0	0	1	0	0	1	5	0	1	10	0
6	0	0	1	4	0	1	10	0	1	16	0
7	0	0	1	8	0	1	15	0	2	2	0
8	0	0	1	12	0	2	0	0	2	8	0
9	0	0	1	16	0	2	5	0	2	14	0
10	0	0	2	0	0	2	10	0	3	0	0
20	0	0	4	0	0	5	0	0	6	0	0
30	0	0	6	0	0	7	10	0	9	0	0
40	0	0	8	0	0	10	0	0	12	0	0
50	0	0	10	0	0	12	10	0	15	0	0
60	0	0	12	0	0	15	0	0	18	0	0
70	0	0	14	0	0	17	10	0	21	0	0
80	0	0	16	0	0	20	0	0	24	0	0
90	0	0	18	0	0	22	10	0	27	0	0
100	0	0	20	0	0	25	0	0	30	0	0
200	0	0	40	0	0	50	0	0	60	0	0
300	0	0	60	0	0	75	0	0	90	0	0
400	0	0	80	0	0	100	0	0	120	0	0
500	0	0	100	0	0	125	0	0	150	0	0
1000	0	0	200	0	0	250	0	0	300	0	0
2000	0	0	400	0	0	500	0	0	600	0	0

Digitized by Google

Price from Seven to Nine Shillings per Acre.

AREA.			At 7s.			At 8s.			At 9s.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	0½	0	0	0½	0	0	0½
0	0	2	0	0	1	0	0	1	0	0	1¼
0	0	3	0	0	1½	0	0	1¾	0	0	2
0	0	4	0	0	2	0	0	2¼	0	0	2½
0	0	5	0	0	2½	0	0	3	0	0	3¼
0	0	6	0	0	3	0	0	3½	0	0	4
0	0	7	0	0	3½	0	0	4	0	0	4½
0	0	8	0	0	4	0	0	4¾	0	0	5¼
0	0	9	0	0	4½	0	0	5¼	0	0	6
0	0	10	0	0	5¼	0	0	6	0	0	6¾
0	0	20	0	0	10½	0	1	0	0	1	1½
0	0	30	0	1	3¾	0	1	6	0	1	8¼
0	1	0	0	1	9	0	2	0	0	2	3
0	2	0	0	3	6	0	4	0	0	4	6
0	3	0	0	5	3	0	6	0	0	6	9
1	0	0	0	7	0	0	8	0	0	9	0
2	0	0	0	14	0	0	16	0	0	18	0
3	0	0	1	1	0	1	4	0	1	7	0
4	0	0	1	8	0	1	12	0	1	16	0
5	0	0	1	15	0	2	0	0	2	5	0
6	0	0	2	2	0	2	8	0	2	14	0
7	0	0	2	9	0	2	16	0	3	3	0
8	0	0	2	16	0	3	4	0	3	12	0
9	0	0	3	3	0	3	12	0	4	1	0
10	0	0	3	10	0	4	0	0	4	10	0
20	0	0	7	0	0	8	0	0	9	0	0
30	0	0	10	10	0	12	0	0	13	10	0
40	0	0	14	0	0	16	0	0	18	0	0
50	0	0	17	10	0	20	0	0	22	10	0
60	0	0	21	0	0	24	0	0	27	0	0
70	0	0	24	10	0	28	0	0	31	10	0
80	0	0	28	0	0	32	0	0	36	0	0
90	0	0	31	10	0	36	0	0	40	10	0
100	0	0	35	0	0	40	0	0	45	0	0
200	0	0	70	0	0	80	0	0	90	0	0
300	0	0	105	0	0	120	0	0	135	0	0
400	0	0	140	0	0	160	0	0	180	0	0
500	0	0	175	0	0	200	0	0	225	0	0
1000	0	0	350	0	0	400	0	0	450	0	0
2000	0	0	700	0	0	800	0	0	900	0	0

Digitized by Google

Price from Ten to Twelve Shillings per Acre.

AREA.			At 10s.			At 11s.			At 12s.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	0¾	0	0	0¾	0	0	0¾
0	0	2	0	0	1½	0	0	1½	0	0	1¾
0	0	3	0	0	2¼	0	0	2¼	0	0	2½
0	0	4	0	0	3	0	0	3¼	0	0	3½
0	0	5	0	0	3¾	0	0	4	0	0	4½
0	0	6	0	0	4½	0	0	4¾	0	0	5¼
0	0	7	0	0	5¼	0	0	5¾	0	0	6¼
0	0	8	0	0	6	0	0	6½	0	0	7
0	0	9	0	0	6¾	0	0	7¼	0	0	8
0	0	10	0	0	7½	0	0	8¼	0	0	9
0	0	20	0	1	3	0	1	4½	0	1	6
0	0	30	0	1	10½	0	2	0	0	2	3
0	1	0	0	2	6	0	2	9	0	3	0
0	2	0	0	5	0	0	5	6	0	6	0
0	3	0	0	7	6	0	8	3	0	9	0
1	0	0	0	10	0	0	11	0	0	12	0
2	0	0	1	0	0	1	2	0	1	4	0
3	0	0	1	10	0	1	13	0	1	16	0
4	0	0	2	0	0	2	4	0	2	8	0
5	0	0	2	10	0	2	15	0	3	0	0
6	0	0	3	0	0	3	6	0	3	12	0
7	0	0	3	10	0	3	17	0	4	4	0
8	0	0	4	0	0	4	8	0	4	16	0
9	0	0	4	10	0	4	19	0	5	8	0
10	0	0	5	0	0	5	10	0	6	0	0
20	0	0	10	0	0	11	0	0	12	0	0
30	0	0	15	0	0	16	10	0	18	0	0
40	0	0	20	0	0	22	0	0	24	0	0
50	0	0	25	0	0	27	10	0	30	0	0
60	0	0	30	0	0	33	0	0	36	0	0
70	0	0	35	0	0	38	10	0	42	0	0
80	0	0	40	0	0	44	0	0	48	0	0
90	0	0	45	0	0	49	10	0	54	0	0
100	0	0	50	0	0	55	0	0	60	0	0
200	0	0	100	0	0	110	0	0	120	0	0
300	0	0	150	0	0	165	0	0	180	0	0
400	0	0	200	0	0	220	0	0	240	0	0
500	0	0	250	0	0	275	0	0	300	0	0
1000	0	0	500	0	0	550	0	0	600	0	0
2000	0	0	1000	0	0	1100	0	0	1200	0	0

Digitized by Google

Price from Thirteen to Fifteen Shillings per Acre.

AREA.			At 13s.			At 14s			At 15s.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	0¾	0	0	1	0	0	1
0	0	2	0	0	1¾	0	0	2	0	0	2¼
0	0	3	0	0	2¾	0	0	3	0	0	3¼
0	0	4	0	0	3¾	0	0	4	0	0	4½
0	0	5	0	0	4¾	0	0	5¼	0	0	5½
0	0	6	0	0	5¾	0	0	6¼	0	0	6¾
0	0	7	0	0	6¾	0	0	7¼	0	0	7¾
0	0	8	0	0	7¾	0	0	8¼	0	0	9
0	0	9	0	0	8¾	0	0	9½	0	0	10
0	0	10	0	0	9¾	0	0	10½	0	0	11¼
0	0	20	0	1	7½	0	1	9	0	1	10½
0	0	30	0	2	5¼	0	2	7½	0	2	9¾
0	1	0	0	3	3	0	3	6	0	3	9
0	2	0	0	6	6	0	7	0	0	7	6
0	3	0	0	9	9	0	10	6	0	11	3
1	0	0	0	13	0	0	14	0	0	15	0
2	0	0	1	6	0	1	8	0	1	10	0
3	0	0	1	19	0	2	2	0	2	5	0
4	0	0	2	12	0	2	16	0	3	0	0
5	0	0	3	5	0	3	10	0	3	15	0
6	0	0	3	18	0	4	4	0	4	10	0
7	0	0	4	11	0	4	18	0	5	5	0
8	0	0	5	4	0	5	12	0	6	0	0
9	0	0	5	17	0	6	6	0	6	15	0
10	0	0	6	10	0	7	0	0	7	10	0
20	0	0	13	0	0	14	0	0	15	0	0
30	0	0	19	10	0	21	0	0	22	10	0
40	0	0	26	0	0	28	0	0	30	0	0
50	0	0	32	10	0	35	0	0	37	10	0
60	0	0	39	0	0	42	0	0	45	0	0
70	0	0	45	10	0	49	0	0	52	10	0
80	0	0	52	0	0	56	0	0	60	0	0
90	0	0	58	10	0	63	0	0	67	10	0
100	0	0	65	0	0	70	0	0	75	0	0
200	0	0	130	0	0	140	0	0	150	0	0
300	0	0	195	0	0	210	0	0	225	0	0
400	0	0	260	0	0	280	0	0	300	0	0
500	0	0	325	0	0	350	0	0	375	0	0
1000	0	0	650	0	0	700	0	0	750	0	0
2000	0	0	1300	0	0	1400	0	0	1500	0	0

Digitized by Google

Price from Sixteen to Eighteen Shillings per Acre.

AREA.			At 16s.			At 17s.			At 18s.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	1¼	0	0	1¼	0	0	1¼
0	0	2	0	0	2½	0	0	2½	0	0	2¾
0	0	3	0	0	3¾	0	0	3¾	0	0	4
0	0	4	0	0	4¾	0	0	5	0	0	5½
0	0	5	0	0	6	0	0	6¼	0	0	6¾
0	0	6	0	0	7¼	0	0	7¾	0	0	8
0	0	7	0	0	8½	0	0	9	0	0	9½
0	0	8	0	0	9½	0	0	10¼	0	0	10¾
0	0	9	0	0	10¾	0	0	11½	0	1	0
0	0	10	0	1	0	0	1	0¾	0	1	1½
0	0	20	0	2	0	0	2	1½	0	2	3
0	0	30	0	3	0	0	3	2¼	0	3	4½
0	1	0	0	4	0	0	4	3	0	4	6
0	2	0	0	8	0	0	8	6	0	9	0
0	3	0	0	12	0	0	12	9	0	13	6
1	0	0	0	16	0	0	17	0	0	18	0
2	0	0	1	12	0	1	14	0	1	16	0
3	0	0	2	8	0	2	11	0	2	14	0
4	0	0	3	4	0	3	8	0	3	12	0
5	0	0	4	0	0	4	5	0	4	10	0
6	0	0	4	16	0	5	2	0	5	8	0
7	0	0	5	12	0	5	19	0	6	6	0
8	0	0	6	8	0	6	16	0	7	4	0
9	0	0	7	4	0	7	13	0	8	2	0
10	0	0	8	0	0	8	10	0	9	0	0
20	0	0	16	0	0	17	0	0	18	0	0
30	0	0	24	0	0	25	10	0	27	0	0
40	0	0	32	0	0	34	0	0	36	0	0
50	0	0	40	0	0	42	10	0	45	0	0
60	0	0	48	0	0	51	0	0	54	0	0
70	0	0	56	0	0	59	10	0	63	0	0
80	0	0	64	0	0	68	0	0	72	0	0
90	0	0	72	0	0	76	10	0	81	0	0
100	0	0	80	0	0	85	0	0	90	0	0
200	0	0	160	0	0	170	0	0	180	0	0
300	0	0	240	0	0	255	0	0	270	0	0
400	0	0	320	0	0	340	0	0	360	0	0
500	0	0	400	0	0	425	0	0	450	0	0
1000	0	0	800	0	0	850	0	0	900	0	0
2000	0	0	1600	0	0	1700	0	0	1800	0	0

Digitized by Google

Price from Nineteen Shillings to Two Pounds per Acre.

AREA.			At 19s.			At £1.			At £2.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	1½	0	0	1½	0	0	3
0	0	2	0	0	2¾	0	0	3	0	0	6
0	0	3	0	0	4¼	0	0	4½	0	0	9
0	0	4	0	0	5¾	0	0	6	0	1	0
0	0	5	0	0	7	0	0	7½	0	1	3
0	0	6	0	0	8½	0	0	9	0	1	6
0	0	7	0	0	10	0	0	10½	0	1	9
0	0	8	0	0	11½	0	1	0	0	2	0
0	0	9	0	1	0¾	0	1	1½	0	2	3
0	0	10	0	1	2¼	0	1	3	0	2	6
0	0	20	0	2	4½	0	2	6	0	5	0
0	0	30	0	3	6¾	0	3	9	0	7	6
0	1	0	0	4	9	0	5	0	0	10	0
0	2	0	0	9	6	0	10	0	1	0	0
0	3	0	0	14	3	0	15	0	1	10	0
1	0	0	0	19	0	1	0	0	2	0	0
2	0	0	1	18	0	2	0	0	4	0	0
3	0	0	2	17	0	3	0	0	6	0	0
4	0	0	3	16	0	4	0	0	8	0	0
5	0	0	4	15	0	5	0	0	10	0	0
6	0	0	5	14	0	6	0	0	12	0	0
7	0	0	6	13	0	7	0	0	14	0	0
8	0	0	7	12	0	8	0	0	16	0	0
9	0	0	8	11	0	9	0	0	18	0	0
10	0	0	9	10	0	10	0	0	20	0	0
20	0	0	19	0	0	20	0	0	40	0	0
30	0	0	28	10	0	30	0	0	60	0	0
40	0	0	38	0	0	40	0	0	80	0	0
50	0	0	47	10	0	50	0	0	100	0	0
60	0	0	57	0	0	60	0	0	120	0	0
70	0	0	66	10	0	70	0	0	140	0	0
80	0	0	76	0	0	80	0	0	160	0	0
90	0	0	85	10	0	90	0	0	180	0	0
100	0	0	95	0	0	100	0	0	200	0	0
200	0	0	190	0	0	200	0	0	400	0	0
300	0	0	285	0	0	300	0	0	600	0	0
400	0	0	380	0	0	400	0	0	800	0	0
500	0	0	475	0	0	500	0	0	1000	0	0
1000	0	0	950	0	0	1000	0	0	2000	0	0
2000	0	0	1900	0	0	2000	0	0	4000	0	0

Digitized by Google

Price from Three to Five Pounds per Acre.

AREA.			At £3.			At £4.			At £5.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	4½	0	0	6	0	0	7½
0	0	2	0	0	9	0	1	0	0	1	3
0	0	3	0	1	1½	0	1	6	0	1	10½
0	0	4	0	1	6	0	2	0	0	2	6
0	0	5	0	1	10½	0	2	6	0	3	1½
0	0	6	0	2	3	0	3	0	0	3	9
0	0	7	0	2	7½	0	3	6	0	4	4½
0	0	8	0	3	0	0	4	0	0	5	0
0	0	9	0	3	4½	0	4	6	0	5	7½
0	0	10	0	3	9	0	5	0	0	6	3
0	0	20	0	7	6	0	10	0	0	12	6
0	0	30	0	11	3	0	15	0	0	18	9
0	1	0	0	15	0	1	0	0	1	5	0
0	2	0	1	10	0	2	0	0	2	10	0
0	3	0	2	5	0	3	0	0	3	15	0
1	0	0	3	0	0	4	0	0	5	0	0
2	0	0	6	0	0	8	0	0	10	0	0
3	0	0	9	0	0	12	0	0	15	0	0
4	0	0	12	0	0	16	0	0	20	0	0
5	0	0	15	0	0	20	0	0	25	0	0
6	0	0	18	0	0	24	0	0	30	0	0
7	0	0	21	0	0	28	0	0	35	0	0
8	0	0	24	0	0	32	0	0	40	0	0
9	0	0	27	0	0	36	0	0	45	0	0
10	0	0	30	0	0	40	0	0	50	0	0
20	0	0	60	0	0	80	0	0	100	0	0
30	0	0	90	0	0	120	0	0	150	0	0
40	0	0	120	0	0	160	0	0	200	0	0
50	0	0	150	0	0	200	0	0	250	0	0
60	0	0	180	0	0	240	0	0	300	0	0
70	0	0	210	0	0	280	0	0	350	0	0
80	0	0	240	0	0	320	0	0	400	0	0
90	0	0	270	0	0	360	0	0	450	0	0
100	0	0	300	0	0	400	0	0	500	0	0
200	0	0	600	0	0	800	0	0	1000	0	0
300	0	0	900	0	0	1200	0	0	1500	0	0
400	0	0	1200	0	0	1600	0	0	2000	0	0
500	0	0	1500	0	0	2000	0	0	2500	0	0
1000	0	0	3000	0	0	4000	0	0	5000	0	0
2000	0	0	6000	0	0	8000	0	0	10,000	0	0

Digitized by Google

Price from Six to Eight Pounds per Acre.

AREA.			At £6.			At £7.			At £8.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	0	9	0	0	10½	0	1	0
0	0	2	0	1	6	0	1	9	0	2	0
0	0	3	0	2	3	0	2	7½	0	3	0
0	0	4	0	3	0	0	3	6	0	4	0
0	0	5	0	3	9	0	4	4½	0	5	0
0	0	6	0	4	6	0	5	3	0	6	0
0	0	7	0	5	3	0	6	1½	0	7	0
0	0	8	0	6	0	0	7	0	0	8	0
0	0	9	0	6	9	0	7	10½	0	9	0
0	0	10	0	7	6	0	8	9	0	10	0
0	0	20	0	15	0	0	17	6	1	0	0
0	0	30	1	2	6	1	6	3	1	10	0
0	1	0	1	10	0	1	15	0	2	0	0
0	2	0	3	0	0	3	10	0	4	0	0
0	3	0	4	10	0	5	5	0	6	0	0
1	0	0	6	0	0	7	0	0	8	0	0
2	0	0	12	0	0	14	0	0	16	0	0
3	0	0	18	0	0	21	0	0	24	0	0
4	0	0	24	0	0	28	0	0	32	0	0
5	0	0	30	0	0	35	0	0	40	0	0
6	0	0	36	0	0	42	0	0	48	0	0
7	0	0	42	0	0	49	0	0	56	0	0
8	0	0	48	0	0	56	0	0	64	0	0
9	0	0	54	0	0	63	0	0	72	0	0
10	0	0	60	0	0	70	0	0	80	0	0
20	0	0	120	0	0	140	0	0	160	0	0
30	0	0	180	0	0	210	0	0	240	0	0
40	0	0	240	0	0	280	0	0	320	0	0
50	0	0	300	0	0	350	0	0	400	0	0
60	0	0	360	0	0	420	0	0	480	0	0
70	0	0	420	0	0	490	0	0	560	0	0
80	0	0	480	0	0	560	0	0	640	0	0
90	0	0	540	0	0	630	0	0	720	0	0
100	0	0	600	0	0	700	0	0	800	0	0
200	0	0	1200	0	0	1400	0	0	1600	0	0
300	0	0	1800	0	0	2100	0	0	2400	0	0
400	0	0	2400	0	0	2800	0	0	3200	0	0
500	0	0	3000	0	0	3500	0	0	4000	0	0
1000	0	0	6000	0	0	7000	0	0	8000	0	0
2000	0	0	12,000	0	0	14,000	0	0	16,000	0	0

Digitized by Google

Price from Nine to Eleven Pounds per Acre.

AREA.			At £9.			At £10.			At £11.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	1	1½	0	1	3	0	1	4½
0	0	2	0	2	3	0	2	6	0	2	9
0	0	3	0	3	4½	0	3	9	0	4	1½
0	0	4	0	4	6	0	5	0	0	5	6
0	0	5	0	5	7½	0	6	3	0	6	10½
0	0	6	0	6	9	0	7	6	0	8	3
0	0	7	0	7	10½	0	8	9	0	9	7½
0	0	8	0	9	0	0	10	0	0	11	0
0	0	9	0	10	1½	0	11	3	0	12	4½
0	0	10	0	11	3	0	12	6	0	13	9
0	0	20	1	2	6	1	5	0	1	7	6
0	0	30	1	13	9	1	17	6	2	1	3
0	1	0	2	5	0	2	10	0	2	15	0
0	2	0	4	10	0	5	0	0	5	10	0
0	3	0	6	15	0	7	10	0	8	5	0
1	0	0	9	0	0	10	0	0	11	0	0
2	0	0	18	0	0	20	0	0	22	0	0
3	0	0	27	0	0	30	0	0	33	0	0
4	0	0	36	0	0	40	0	0	44	0	0
5	0	0	45	0	0	50	0	0	55	0	0
6	0	0	54	0	0	60	0	0	66	0	0
7	0	0	63	0	0	70	0	0	77	0	0
8	0	0	72	0	0	80	0	0	88	0	0
9	0	0	81	0	0	90	0	0	99	0	0
10	0	0	90	0	0	100	0	0	110	0	0
20	0	0	180	0	0	200	0	0	220	0	0
30	0	0	270	0	0	300	0	0	330	0	0
40	0	0	360	0	0	400	0	0	440	0	0
50	0	0	450	0	0	500	0	0	550	0	0
60	0	0	540	0	0	600	0	0	660	0	0
70	0	0	630	0	0	700	0	0	770	0	0
80	0	0	720	0	0	800	0	0	880	0	0
90	0	0	810	0	0	900	0	0	990	0	0
100	0	0	900	0	0	1000	0	0	1100	0	0
200	0	0	1800	0	0	2000	0	0	2200	0	0
300	0	0	2700	0	0	3000	0	0	3300	0	0
400	0	0	3600	0	0	4000	0	0	4400	0	0
500	0	0	4500	0	0	5000	0	0	5500	0	0
1000	0	0	9000	0	0	10,000	0	0	11,000	0	0
2000	0	0	18,000	0	0	20,000	0	0	22,000	0	0

Digitized by Google

Price from Twelve to Fourteen Pounds per Acre.

AREA.			At £12.			At £13.			At £14.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	1	6	0	1	7½	0	1	9
0	0	2	0	3	0	0	3	3	0	3	6
0	0	3	0	4	6	0	4	10½	0	5	3
0	0	4	0	6	0	0	6	6	0	7	0
0	0	5	0	7	6	0	8	1½	0	8	9
0	0	6	0	9	0	0	9	9	0	10	6
0	0	7	0	10	6	0	11	4½	0	12	3
0	0	8	0	12	0	0	13	0	0	14	0
0	0	9	0	13	6	0	14	7½	0	15	9
0	0	10	0	15	0	0	16	3	0	17	6
0	0	20	1	10	0	1	12	6	1	15	0
0	0	30	2	5	0	2	8	9	2	12	6
0	1	0	3	0	0	3	5	0	3	10	0
0	2	0	6	0	0	6	10	0	7	0	0
0	3	0	9	0	0	9	15	0	10	10	0
1	0	0	12	0	0	13	0	0	14	0	0
2	0	0	24	0	0	26	0	0	28	0	0
3	0	0	36	0	0	39	0	0	42	0	0
4	0	0	48	0	0	52	0	0	56	0	0
5	0	0	60	0	0	65	0	0	70	0	0
6	0	0	72	0	0	78	0	0	84	0	0
7	0	0	84	0	0	91	0	0	98	0	0
8	0	0	96	0	0	104	0	0	112	0	0
9	0	0	108	0	0	117	0	0	126	0	0
10	0	0	120	0	0	130	0	0	140	0	0
20	0	0	240	0	0	260	0	0	280	0	0
30	0	0	360	0	0	390	0	0	420	0	0
40	0	0	480	0	0	520	0	0	560	0	0
50	0	0	600	0	0	650	0	0	700	0	0
60	0	0	720	0	0	780	0	0	840	0	0
70	0	0	840	0	0	910	0	0	980	0	0
80	0	0	960	0	0	1040	0	0	1120	0	0
90	0	0	1080	0	0	1170	0	0	1260	0	0
100	0	0	1200	0	0	1300	0	0	1400	0	0
200	0	0	2400	0	0	2600	0	0	2800	0	0
300	0	0	3600	0	0	3900	0	0	4200	0	0
400	0	0	4800	0	0	5200	0	0	5600	0	0
500	0	0	6000	0	0	6500	0	0	7000	0	0
1000	0	0	12,000	0	0	13,000	0	0	14,000	0	0
2000	0	0	24,000	0	0	26,000	0	0	28,000	0	0

Digitized by Google

Price from Fifteen to Seventeen Pounds per Acre.

AREA.			At £15.			At £16.			At £17.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	1	10½	0	2	0	0	2	1½
0	0	2	0	3	9	0	4	0	0	4	3
0	0	3	0	5	7½	0	6	0	0	6	4½
0	0	4	0	7	6	0	8	0	0	8	6
0	0	5	0	9	4½	0	10	0	0	10	7½
0	0	6	0	11	3	0	12	0	0	12	9
0	0	7	0	13	1½	0	14	0	0	14	10½
0	0	8	0	15	0	0	16	0	0	17	0
0	0	9	0	16	10½	0	18	0	0	19	1½
0	0	10	0	18	9	1	0	0	1	1	3
0	0	20	1	17	6	2	0	0	2	2	6
0	0	30	2	16	3	3	0	0	3	3	9
0	1	0	3	15	0	4	0	0	4	5	0
0	2	0	7	10	0	8	0	0	8	10	0
0	3	0	11	5	0	12	0	0	12	15	0
1	0	0	15	0	0	16	0	0	17	0	0
2	0	0	30	0	0	32	0	0	34	0	0
3	0	0	45	0	0	48	0	0	51	0	0
4	0	0	60	0	0	64	0	0	68	0	0
5	0	0	75	0	0	80	0	0	85	0	0
6	0	0	90	0	0	96	0	0	102	0	0
7	0	0	105	0	0	112	0	0	119	0	0
8	0	0	120	0	0	128	0	0	136	0	0
9	0	0	135	0	0	144	0	0	153	0	0
10	0	0	150	0	0	160	0	0	170	0	0
20	0	0	300	0	0	320	0	0	340	0	0
30	0	0	450	0	0	480	0	0	510	0	0
40	0	0	600	0	0	640	0	0	680	0	0
50	0	0	750	0	0	800	0	0	850	0	0
60	0	0	900	0	0	960	0	0	1020	0	0
70	0	0	1050	0	0	1120	0	0	1190	0	0
80	0	0	1200	0	0	1280	0	0	1360	0	0
90	0	0	1350	0	0	1440	0	0	1530	0	0
100	0	0	1500	0	0	1600	0	0	1700	0	0
200	0	0	3000	0	0	3200	0	0	3400	0	0
300	0	0	4500	0	0	4800	0	0	5100	0	0
400	0	0	6000	0	0	6400	0	0	6800	0	0
500	0	0	7500	0	0	8000	0	0	8500	0	0
1000	0	0	15,000	0	0	16,000	0	0	17,000	0	0
2000	0	0	30,000	0	0	32,000	0	0	34,000	0	0

Digitized by Google

Price from Eighteen to Twenty Pounds per Acre.

AREA.			At £18.			At £19.			At £20.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	2	3	0	2	4½	0	2	6
0	0	2	0	4	6	0	4	9	0	5	0
0	0	3	0	6	9	0	7	1½	0	7	6
0	0	4	0	9	0	0	9	6	0	10	0
0	0	5	0	11	3	0	11	10½	0	12	6
0	0	6	0	13	6	0	14	3	0	15	0
0	0	7	0	15	9	0	16	7½	0	17	6
0	0	8	0	18	0	0	19	0	1	0	0
0	0	9	1	0	3	1	1	4½	1	2	6
0	0	10	1	2	6	1	3	9	1	5	0
0	0	20	2	5	0	2	7	6	2	10	0
0	0	30	3	7	6	3	11	3	3	15	0
0	1	0	4	10	0	4	15	0	5	0	0
0	2	0	9	0	0	9	10	0	10	0	0
0	3	0	13	10	0	14	5	0	15	0	0
1	0	0	18	0	0	19	0	0	20	0	0
2	0	0	36	0	0	38	0	0	40	0	0
3	0	0	54	0	0	57	0	0	60	0	0
4	0	0	72	0	0	76	0	0	80	0	0
5	0	0	90	0	0	95	0	0	100	0	0
6	0	0	108	0	0	114	0	0	120	0	0
7	0	0	126	0	0	133	0	0	140	0	0
8	0	0	144	0	0	152	0	0	160	0	0
9	0	0	162	0	0	171	0	0	180	0	0
10	0	0	180	0	0	190	0	0	200	0	0
20	0	0	360	0	0	380	0	0	400	0	0
30	0	0	540	0	0	570	0	0	600	0	0
40	0	0	720	0	0	760	0	0	800	0	0
50	0	0	900	0	0	950	0	0	1000	0	0
60	0	0	1080	0	0	1140	0	0	1200	0	0
70	0	0	1260	0	0	1330	0	0	1400	0	0
80	0	0	1440	0	0	1520	0	0	1600	0	0
90	0	0	1620	0	0	1710	0	0	1800	0	0
100	0	0	1800	0	0	1900	0	0	2000	0	0
200	0	0	3600	0	0	3800	0	0	4000	0	0
300	0	0	5400	0	0	5700	0	0	6000	0	0
400	0	0	7200	0	0	7600	0	0	8000	0	0
500	0	0	9000	0	0	9500	0	0	10,000	0	0
1000	0	0	18,000	0	0	19,000	0	0	20,000	0	0
2000	0	0	36,000	0	0	38,000	0	0	40,000	0	0

Digitized by Google

Price from Twenty-one to Twenty-three Pounds per Acre.

AREA.			At £21.			At £22.			At £23.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	2	7½	0	2	9	0	2	10½
0	0	2	0	5	3	0	5	6	0	5	9
0	0	3	0	7	10½	0	8	3	0	8	7½
0	0	4	0	10	6	0	11	0	0	11	6
0	0	5	0	13	1½	0	13	9	0	14	4½
0	0	6	0	15	9	0	16	6	0	17	3
0	0	7	0	18	4½	0	19	3	1	0	1½
0	0	8	1	1	0	1	2	0	1	3	0
0	0	9	1	3	7½	1	4	9	1	5	10½
0	0	10	1	6	3	1	7	6	1	8	9
0	0	20	2	12	6	2	15	0	2	17	6
0	0	30	3	18	9	4	2	6	4	6	3
0	1	0	5	5	0	5	10	0	5	15	0
0	2	0	10	10	0	11	0	0	11	10	0
0	3	0	15	15	0	16	10	0	17	5	0
1	0	0	21	0	0	22	0	0	23	0	0
2	0	0	42	0	0	44	0	0	46	0	0
3	0	0	63	0	0	66	0	0	69	0	0
4	0	0	84	0	0	88	0	0	92	0	0
5	0	0	105	0	0	110	0	0	115	0	0
6	0	0	126	0	0	132	0	0	138	0	0
7	0	0	147	0	0	154	0	0	161	0	0
8	0	0	168	0	0	176	0	0	184	0	0
9	0	0	189	0	0	198	0	0	207	0	0
10	0	0	210	0	0	220	0	0	230	0	0
20	0	0	420	0	0	440	0	0	460	0	0
30	0	0	630	0	0	660	0	0	690	0	0
40	0	0	840	0	0	880	0	0	920	0	0
50	0	0	1050	0	0	1100	0	0	1150	0	0
60	0	0	1260	0	0	1320	0	0	1380	0	0
70	0	0	1470	0	0	1540	0	0	1610	0	0
80	0	0	1680	0	0	1760	0	0	1840	0	0
90	0	0	1890	0	0	1980	0	0	2070	0	0
100	0	0	2100	0	0	2200	0	0	2300	0	0
200	0	0	4200	0	0	4400	0	0	4600	0	0
300	0	0	6300	0	0	6600	0	0	6900	0	0
400	0	0	8400	0	0	8800	0	0	9200	0	0
500	0	0	10,500	0	0	11,000	0	0	11,500	0	0
1000	0	0	21,000	0	0	22,000	0	0	23,000	0	0
2000	0	0	42,000	0	0	44,000	0	0	46,000	0	0

Digitized by Google

Price from Twenty-four to Twenty-six Pounds per Acre.

AREA.			At £24.			At £25.			At £26.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	3	0	0	3	1½	0	3	3
0	0	2	0	6	0	0	6	3	0	6	6
0	0	3	0	9	0	0	9	4½	0	9	9
0	0	4	0	12	0	0	12	6	0	13	0
0	0	5	0	15	0	0	15	7½	0	16	3
0	0	6	0	18	0	0	18	9	0	19	6
0	0	7	1	1	0	1	1	10½	1	2	9
0	0	8	1	4	0	1	5	0	1	6	0
0	0	9	1	7	0	1	8	1½	1	9	3
0	0	10	1	10	0	1	11	3	1	12	6
0	0	20	3	0	0	3	2	6	3	5	0
0	0	30	4	10	0	4	13	9	4	17	6
0	1	0	6	0	0	6	5	0	6	10	0
0	2	0	12	0	0	12	10	0	13	0	0
0	3	0	18	0	0	18	15	0	19	10	0
1	0	0	24	0	0	25	0	0	26	0	0
2	0	0	48	0	0	50	0	0	52	0	0
3	0	0	72	0	0	75	0	0	78	0	0
4	0	0	96	0	0	100	0	0	104	0	0
5	0	0	120	0	0	125	0	0	130	0	0
6	0	0	144	0	0	150	0	0	156	0	0
7	0	0	168	0	0	175	0	0	182	0	0
8	0	0	192	0	0	200	0	0	208	0	0
9	0	0	216	0	0	225	0	0	234	0	0
10	0	0	240	0	0	250	0	0	260	0	0
20	0	0	480	0	0	500	0	0	520	0	0
30	0	0	720	0	0	750	0	0	780	0	0
40	0	0	960	0	0	1000	0	0	1040	0	0
50	0	0	1200	0	0	1250	0	0	1300	0	0
60	0	0	1440	0	0	1500	0	0	1560	0	0
70	0	0	1680	0	0	1750	0	0	1820	0	0
80	0	0	1920	0	0	2000	0	0	2080	0	0
90	0	0	2160	0	0	2250	0	0	2340	0	0
100	0	0	2400	0	0	2500	0	0	2600	0	0
200	0	0	4800	0	0	5000	0	0	5200	0	0
300	0	0	7200	0	0	7500	0	0	7800	0	0
400	0	0	9600	0	0	10,000	0	0	10,400	0	0
500	0	0	12,000	0	0	12,500	0	0	13,000	0	0
1000	0	0	24,000	0	0	25,000	0	0	26,000	0	0
2000	0	0	48,000	0	0	50,000	0	0	52,000	0	0

Digitized by Google

Price from Twenty-seven to Twenty-nine Pounds per Acre.

AREA.			At £27.			At £28.			At £29.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	3	4½	0	3	6	0	3	7½
0	0	2	0	6	9	0	7	0	0	7	3
0	0	3	0	10	1½	0	10	6	0	10	10½
0	0	4	0	13	6	0	14	0	0	14	6
0	0	5	0	16	10½	0	17	6	0	18	1½
0	0	6	1	0	3	1	1	0	1	1	9
0	0	7	1	3	7½	1	4	6	1	5	4½
0	0	8	1	7	0	1	8	0	1	9	0
0	0	9	1	10	4½	1	11	6	1	12	7½
0	0	10	1	13	9	1	15	0	1	16	3
0	0	20	3	7	6	3	10	0	3	12	6
0	0	30	5	1	3	5	5	0	5	8	9
0	1	0	6	15	0	7	0	0	7	5	0
0	2	0	13	10	0	14	0	0	14	10	0
0	3	0	20	5	0	21	0	0	21	15	0
1	0	0	27	0	0	28	0	0	29	0	0
2	0	0	54	0	0	56	0	0	58	0	0
3	0	0	81	0	0	84	0	0	87	0	0
4	0	0	108	0	0	112	0	0	116	0	0
5	0	0	135	0	0	140	0	0	145	0	0
6	0	0	162	0	0	168	0	0	174	0	0
7	0	0	189	0	0	196	0	0	193	0	0
8	0	0	216	0	0	224	0	0	232	0	0
9	0	0	243	0	0	252	0	0	261	0	0
10	0	0	270	0	0	280	0	0	290	0	0
20	0	0	540	0	0	560	0	0	580	0	0
30	0	0	810	0	0	840	0	0	870	0	0
40	0	0	1080	0	0	1120	0	0	1160	0	0
50	0	0	1350	0	0	1400	0	0	1450	0	0
60	0	0	1620	0	0	1680	0	0	1740	0	0
70	0	0	1890	0	0	1960	0	0	1930	0	0
80	0	0	2160	0	0	2240	0	0	2320	0	0
90	0	0	2430	0	0	2520	0	0	2610	0	0
100	0	0	2700	0	0	2800	0	0	2900	0	0
200	0	0	5400	0	0	5600	0	0	5800	0	0
300	0	0	8100	0	0	8400	0	0	8700	0	0
400	0	0	10,800	0	0	11,200	0	0	11,600	0	0
500	0	0	13,500	0	0	14,000	0	0	14,500	0	0
1000	0	0	27,000	0	0	28,000	0	0	29,000	0	0
2000	0	0	54,000	0	0	56,000	0	0	58,000	0	0

Digitized by Google

Price from Thirty to Thirty-two Pounds per Acre.

AREA.			At £30.			At £31.			At £32.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	3	9	0	3	10½	0	4	0
0	0	2	0	7	6	0	7	9	0	8	0
0	0	3	0	11	3	0	11	7½	0	12	0
0	0	4	0	15	0	0	15	6	0	16	0
0	0	5	0	18	9	0	19	4½	1	0	0
0	0	6	1	2	6	1	3	3	1	4	0
0	0	7	1	6	3	1	7	1½	1	8	0
0	0	8	1	10	0	1	11	0	1	12	0
0	0	9	1	13	9	1	14	10½	1	16	0
0	0	10	1	17	6	1	18	9	2	0	0
0	0	20	3	15	0	3	17	6	4	0	0
0	0	30	5	12	6	5	16	3	6	0	0
0	1	0	7	10	0	7	15	0	8	0	0
0	2	0	15	0	0	15	10	0	16	0	0
0	3	0	22	10	0	23	5	0	24	0	0
1	0	0	30	0	0	31	0	0	32	0	0
2	0	0	60	0	0	62	0	0	64	0	0
3	0	0	90	0	0	93	0	0	96	0	0
4	0	0	120	0	0	124	0	0	128	0	0
5	0	0	150	0	0	155	0	0	160	0	0
6	0	0	180	0	0	186	0	0	192	0	0
7	0	0	210	0	0	217	0	0	224	0	0
8	0	0	240	0	0	248	0	0	256	0	0
9	0	0	270	0	0	279	0	0	288	0	0
10	0	0	300	0	0	310	0	0	320	0	0
20	0	0	600	0	0	620	0	0	640	0	0
30	0	0	900	0	0	930	0	0	960	0	0
40	0	0	1200	0	0	1240	0	0	1280	0	0
50	0	0	1500	0	0	1550	0	0	1600	0	0
60	0	0	1800	0	0	1860	0	0	1920	0	0
70	0	0	2100	0	0	2170	0	0	2240	0	0
80	0	0	2400	0	0	2480	0	0	2560	0	0
90	0	0	2700	0	0	2790	0	0	2880	0	0
100	0	0	3000	0	0	3100	0	0	3200	0	0
200	0	0	6000	0	0	6200	0	0	6400	0	0
300	0	0	9000	0	0	9300	0	0	9600	0	0
400	0	0	12,000	0	0	12,400	0	0	12,800	0	0
500	0	0	15,000	0	0	15,500	0	0	16,000	0	0
1000	0	0	30,000	0	0	31,000	0	0	32,000	0	0
2000	0	0	60,000	0	0	62,000	0	0	64,000	0	0

Digitized by Google

Price from Thirty-three to Thirty-five Pounds per Acre.

AREA.			At £33.			At £34.			At £35.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	4	1½	0	4	3	0	4	4½
0	0	2	0	8	3	0	8	6	0	8	9
0	0	3	0	12	4½	0	12	9	0	13	1½
0	0	4	0	16	6	0	17	0	0	17	6
0	0	5	1	0	7½	1	1	3	1	1	10½
0	0	6	1	4	9	1	5	6	1	6	3
0	0	7	1	8	10½	1	9	9	1	10	7½
0	0	8	1	13	0	1	14	0	1	15	0
0	0	9	1	17	1½	1	18	3	1	19	4½
0	0	10	2	1	3	2	2	6	2	3	9
0	0	20	4	2	6	4	5	0	4	7	6
0	0	30	6	3	9	6	7	6	6	11	3
0	1	0	8	5	0	8	10	0	8	15	0
0	2	0	16	10	0	17	0	0	17	10	0
0	3	0	24	15	0	25	10	0	26	5	0
1	0	0	33	0	0	34	0	0	35	0	0
2	0	0	66	0	0	68	0	0	70	0	0
3	0	0	99	0	0	102	0	0	105	0	0
4	0	0	132	0	0	136	0	0	140	0	0
5	0	0	165	0	0	170	0	0	175	0	0
6	0	0	198	0	0	204	0	0	210	0	0
7	0	0	231	0	0	238	0	0	245	0	0
8	0	0	264	0	0	272	0	0	280	0	0
9	0	0	297	0	0	306	0	0	315	0	0
10	0	0	330	0	0	340	0	0	350	0	0
20	0	0	660	0	0	680	0	0	700	0	0
30	0	0	990	0	0	1020	0	0	1050	0	0
40	0	0	1320	0	0	1360	0	0	1400	0	0
50	0	0	1650	0	0	1700	0	0	1750	0	0
60	0	0	1980	0	0	2040	0	0	2100	0	0
70	0	0	2310	0	0	2380	0	0	2450	0	0
80	0	0	2640	0	0	2720	0	0	2800	0	0
90	0	0	2970	0	0	3060	0	0	3150	0	0
100	0	0	3300	0	0	3400	0	0	3500	0	0
200	0	0	6600	0	0	6800	0	0	7000	0	0
300	0	0	9900	0	0	10,200	0	0	10,500	0	0
400	0	0	13,200	0	0	13,600	0	0	14,000	0	0
500	0	0	16,500	0	0	17,000	0	0	17,500	0	0
1000	0	0	33,000	0	0	34,000	0	0	35,000	0	0
2000	0	0	66,000	0	0	68,000	0	0	70,000	0	0

Digitized by Google

Price from Thirty-six to Thirty-eight Pounds per Acre.

AREA.			At £36.			At £37.			At £38.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	4	6	0	4	7½	0	4	9
0	0	2	0	9	0	0	9	3	0	9	6
0	0	3	0	13	6	0	13	10½	0	14	3
0	0	4	0	18	0	0	18	6	0	19	0
0	0	5	1	2	6	1	3	1½	1	3	9
0	0	6	1	7	0	1	7	9	1	8	6
0	0	7	1	11	6	1	12	4½	1	13	3
0	0	8	1	16	0	1	17	0	1	18	0
0	0	9	2	0	6	2	1	7½	2	2	9
0	0	10	2	5	0	2	6	3	2	7	6
0	0	20	4	10	0	4	12	6	4	15	0
0	0	30	6	15	0	6	18	9	7	2	6
0	1	0	9	0	0	9	5	0	9	10	0
0	2	0	18	0	0	18	10	0	19	0	0
0	3	0	27	0	0	27	15	0	28	10	0
1	0	0	36	0	0	37	0	0	38	0	0
2	0	0	72	0	0	74	0	0	76	0	0
3	0	0	108	0	0	111	0	0	114	0	0
4	0	0	144	0	0	148	0	0	152	0	0
5	0	0	180	0	0	185	0	0	190	0	0
6	0	0	216	0	0	222	0	0	228	0	0
7	0	0	252	0	0	259	0	0	266	0	0
8	0	0	288	0	0	296	0	0	304	0	0
9	0	0	324	0	0	333	0	0	342	0	0
10	0	0	360	0	0	370	0	0	380	0	0
20	0	0	720	0	0	740	0	0	760	0	0
30	0	0	1080	0	0	1110	0	0	1140	0	0
40	0	0	1440	0	0	1480	0	0	1520	0	0
50	0	0	1800	0	0	1850	0	0	1900	0	0
60	0	0	2160	0	0	2220	0	0	2280	0	0
70	0	0	2520	0	0	2590	0	0	2660	0	0
80	0	0	2880	0	0	2960	0	0	3040	0	0
90	0	0	3240	0	0	3300	0	0	3420	0	0
100	0	0	3600	0	0	3700	0	0	3800	0	0
200	0	0	7200	0	0	7400	0	0	7600	0	0
300	0	0	10,800	0	0	11,100	0	0	11,400	0	0
400	0	0	14,400	0	0	14,800	0	0	15,200	0	0
500	0	0	18,000	0	0	18,500	0	0	19,000	0	0
1000	0	0	36,000	0	0	37,000	0	0	38,000	0	0
2000	0	0	72,000	0	0	74,000	0	0	76,000	0	0

Digitized by Google

Price from Thirty-nine to Forty-one Pounds per Acre.

AREA.			At £39.			At £40.			At £41.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	4	10½	0	5	0	0	5	1½
0	0	2	0	9	9	0	10	0	0	10	3
0	0	3	0	14	7½	0	15	0	0	15	4½
0	0	4	0	19	6	1	0	0	1	0	6
0	0	5	1	4	4½	1	5	0	1	5	7½
0	0	6	1	9	3	1	10	0	1	10	9
0	0	7	1	14	1½	1	15	0	1	15	10½
0	0	8	1	19	0	2	0	0	2	1	0
0	0	9	2	3	10½	2	5	0	2	6	1½
0	0	10	2	8	9	2	10	0	2	11	3
0	0	20	4	17	6	5	0	0	5	2	6
0	0	30	7	6	3	7	10	0	7	13	9
0	1	0	9	15	0	10	0	0	10	5	0
0	2	0	19	10	0	20	0	0	20	10	0
0	3	0	29	5	0	30	0	0	30	15	0
1	0	0	39	0	0	40	0	0	41	0	0
2	0	0	78	0	0	80	0	0	82	0	0
3	0	0	117	0	0	120	0	0	123	0	0
4	0	0	156	0	0	160	0	0	164	0	0
5	0	0	195	0	0	200	0	0	205	0	0
6	0	0	234	0	0	240	0	0	246	0	0
7	0	0	273	0	0	280	0	0	287	0	0
8	0	0	312	0	0	320	0	0	328	0	0
9	0	0	351	0	0	360	0	0	369	0	0
10	0	0	390	0	0	400	0	0	410	0	0
20	0	0	780	0	0	800	0	0	820	0	0
30	0	0	1170	0	0	1200	0	0	1230	0	0
40	0	0	1560	0	0	1600	0	0	1640	0	0
50	0	0	1950	0	0	2000	0	0	2050	0	0
60	0	0	2340	0	0	2400	0	0	2460	0	0
70	0	0	2730	0	0	2800	0	0	2870	0	0
80	0	0	3120	0	0	3200	0	0	3280	0	0
90	0	0	3510	0	0	3600	0	0	3690	0	0
100	0	0	3900	0	0	4000	0	0	4100	0	0
200	0	0	7800	0	0	8000	0	0	8200	0	0
300	0	0	11,700	0	0	12,000	0	0	12,300	0	0
400	0	0	15,600	0	0	16,000	0	0	16,400	0	0
500	0	0	19,500	0	0	20,000	0	0	20,500	0	0
1000	0	0	39,000	0	0	40,000	0	0	41,000	0	0
2000	0	0	78,000	0	0	80,000	0	0	82,000	0	0

Digitized by Google

Price from Forty-two to Forty-four Pounds per Acre.

AREA.			At £42.			At £43.			At £44.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	5	3	0	5	4½	0	5	6
0	0	2	0	10	6	0	10	9	0	11	0
0	0	3	0	15	9	0	16	1½	0	16	6
0	0	4	1	1	0	1	1	6	1	2	0
0	0	5	1	6	3	1	6	10½	1	7	6
0	0	6	1	11	6	1	12	3	1	13	0
0	0	7	1	16	9	1	17	7½	1	18	6
0	0	8	2	2	0	2	3	0	2	4	0
0	0	9	2	7	3	2	8	4½	2	9	6
0	0	10	2	12	6	2	13	9	2	15	0
0	0	20	5	5	0	5	7	6	5	10	0
0	0	30	7	17	6	8	1	3	8	5	0
0	1	0	10	10	0	10	15	0	11	0	0
0	2	0	21	0	0	21	10	0	22	0	0
0	3	0	31	10	0	32	5	0	33	0	0
1	0	0	42	0	0	43	0	0	44	0	0
2	0	0	84	0	0	86	0	0	88	0	0
3	0	0	126	0	0	129	0	0	132	0	0
4	0	0	168	0	0	172	0	0	176	0	0
5	0	0	210	0	0	215	0	0	220	0	0
6	0	0	252	0	0	258	0	0	264	0	0
7	0	0	294	0	0	301	0	0	308	0	0
8	0	0	336	0	0	344	0	0	352	0	0
9	0	0	378	0	0	387	0	0	396	0	0
10	0	0	420	0	0	430	0	0	440	0	0
20	0	0	840	0	0	860	0	0	880	0	0
30	0	0	1260	0	0	1290	0	0	1320	0	0
40	0	0	1680	0	0	1720	0	0	1760	0	0
50	0	0	2100	0	0	2150	0	0	2200	0	0
60	0	0	2520	0	0	2580	0	0	2640	0	0
70	0	0	2940	0	0	3010	0	0	3080	0	0
80	0	0	3360	0	0	3440	0	0	3520	0	0
90	0	0	3780	0	0	3870	0	0	3960	0	0
100	0	0	4200	0	0	4300	0	0	4400	0	0
200	0	0	8400	0	0	8600	0	0	8800	0	0
300	0	0	12,600	0	0	12,900	0	0	13,200	0	0
400	0	0	16,800	0	0	17,200	0	0	17,600	0	0
500	0	0	21,000	0	0	21,500	0	0	22,000	0	0
1000	0	0	42,000	0	0	43,000	0	0	44,000	0	0
2000	0	0	84,000	0	0	86,000	0	0	88,000	0	0

Digitized by Google

Price from Forty-five to Forty-seven Pounds per Acre.

AREA.			At £45.			At £46.			At £47.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	5	7½	0	5	9	0	5	10½
0	0	2	0	11	3	0	11	6	0	11	9
0	0	3	0	16	10½	0	17	3	0	17	7½
0	0	4	1	2	6	1	3	0	1	3	6
0	0	5	1	8	1½	1	8	9	1	9	4½
0	0	6	1	13	9	1	14	6	1	15	3
0	0	7	1	19	4½	2	0	3	2	1	1½
0	0	8	2	5	0	2	6	0	2	7	0
0	0	9	2	10	7½	2	11	9	2	12	10½
0	0	10	2	16	3	2	17	6	2	18	9
0	0	20	5	12	6	5	15	0	5	17	6
0	0	30	8	8	9	8	12	6	8	16	3
0	1	0	11	5	0	11	10	0	11	15	0
0	2	0	22	10	0	23	0	0	23	10	0
0	3	0	33	15	0	34	10	0	35	5	0
1	0	0	45	0	0	46	0	0	47	0	0
2	0	0	90	0	0	92	0	0	94	0	0
3	0	0	135	0	0	138	0	0	141	0	0
4	0	0	180	0	0	184	0	0	188	0	0
5	0	0	225	0	0	230	0	0	235	0	0
6	0	0	270	0	0	276	0	0	282	0	0
7	0	0	315	0	0	322	0	0	329	0	0
8	0	0	360	0	0	368	0	0	376	0	0
9	0	0	405	0	0	414	0	0	423	0	0
10	0	0	450	0	0	460	0	0	470	0	0
20	0	0	900	0	0	920	0	0	940	0	0
30	0	0	1350	0	0	1380	0	0	1410	0	0
40	0	0	1800	0	0	1840	0	0	1880	0	0
50	0	0	2250	0	0	2300	0	0	2350	0	0
60	0	0	2700	0	0	2760	0	0	2820	0	0
70	0	0	3150	0	0	3220	0	0	3290	0	0
80	0	0	3600	0	0	3680	0	0	3760	0	0
90	0	0	4050	0	0	4140	0	0	4230	0	0
100	0	0	4500	0	0	4600	0	0	4700	0	0
200	0	0	9000	0	0	9200	0	0	9400	0	0
300	0	0	13,500	0	0	13,800	0	0	14,100	0	0
400	0	0	18,000	0	0	18,400	0	0	18,800	0	0
500	0	0	22,500	0	0	23,000	0	0	23,500	0	0
1000	0	0	45,000	0	0	46,000	0	0	47,000	0	0
2000	0	0	90,000	0	0	92,000	0	0	94,000	0	0

Digitized by Google

Price from Forty-eight to Fifty Pounds per Acre.

AREA.			At £48.			At £49.			At £50.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	6	0	0	6	1¼	0	6	3
0	0	2	0	12	0	0	12	3	0	12	6
0	0	3	0	18	0	0	18	4½	0	18	9
0	0	4	1	4	0	1	4	6	1	5	0
0	0	5	1	10	0	1	10	7½	1	11	3
0	0	6	1	16	0	1	16	9	1	17	6
0	0	7	2	2	0	2	2	10½	2	3	9
0	0	8	2	8	0	2	9	0	2	10	0
0	0	9	2	14	0	2	15	1½	2	16	3
0	0	10	3	0	0	3	1	3	3	2	6
0	0	20	6	0	0	6	2	6	6	5	0
0	0	30	9	0	0	9	3	9	9	7	6
0	1	0	12	0	0	12	5	0	12	10	0
0	2	0	24	0	0	24	10	0	25	0	0
0	3	0	36	0	0	36	15	0	37	10	0
1	0	0	48	0	0	49	0	0	50	0	0
2	0	0	96	0	0	98	0	0	100	0	0
3	0	0	144	0	0	147	0	0	150	0	0
4	0	0	192	0	0	196	0	0	200	0	0
5	0	0	240	0	0	245	0	0	250	0	0
6	0	0	288	0	0	294	0	0	300	0	0
7	0	0	336	0	0	343	0	0	350	0	0
8	0	0	384	0	0	432	0	0	400	0	0
9	0	0	432	0	0	441	0	0	450	0	0
10	0	0	480	0	0	490	0	0	500	0	0
20	0	0	960	0	0	980	0	0	1000	0	0
30	0	0	1440	0	0	1470	0	0	1500	0	0
40	0	0	1920	0	0	1960	0	0	2000	0	0
50	0	0	2400	0	0	2450	0	0	2500	0	0
60	0	0	2880	0	0	2940	0	0	3000	0	0
70	0	0	3360	0	0	3430	0	0	3500	0	0
80	0	0	3840	0	0	4320	0	0	4000	0	0
90	0	0	4320	0	0	4410	0	0	4500	0	0
100	0	0	4800	0	0	4900	0	0	5000	0	0
200	0	0	9600	0	0	9800	0	0	10,000	0	0
300	0	0	14,400	0	0	14,700	0	0	15,000	0	0
400	0	0	19,200	0	0	19,600	0	0	20,000	0	0
500	0	0	24,000	0	0	24,500	0	0	25,000	0	0
1000	0	0	48,000	0	0	49,000	0	0	50,000	0	0
2000	0	0	96,000	0	0	98,000	0	0	100,000	0	0

Digitized by Google

Price from Fifty-one to Fifty-three Pounds per Acre.

AREA.			At £51.			At £52.			At £53.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	6	4½	0	6	6	0	6	7½
0	0	2	0	12	9	0	13	0	0	13	3
0	0	3	0	19	1½	0	19	6	0	19	10½
0	0	4	1	5	6	1	6	0	1	6	6
0	0	5	1	11	10½	1	12	6	1	13	1½
0	0	6	1	18	3	1	19	0	1	19	9
0	0	7	2	4	7½	2	5	6	2	6	4½
0	0	8	2	11	0	2	12	0	2	13	0
0	0	9	2	17	4½	2	18	6	2	19	7½
0	0	10	3	3	9	3	5	0	3	6	3
0	0	20	6	7	6	6	10	0	6	12	6
0	0	30	9	11	3	9	15	0	9	18	9
0	1	0	12	15	0	13	0	0	13	5	0
0	2	0	25	10	0	26	0	0	26	10	0
0	3	0	38	5	0	39	0	0	39	15	0
1	0	0	51	0	0	52	0	0	53	0	0
2	0	0	102	0	0	104	0	0	106	0	0
3	0	0	153	0	0	156	0	0	159	0	0
4	0	0	204	0	0	208	0	0	212	0	0
5	0	0	255	0	0	260	0	0	265	0	0
6	0	0	306	0	0	312	0	0	318	0	0
7	0	0	357	0	0	364	0	0	371	0	0
8	0	0	408	0	0	416	0	0	424	0	0
9	0	0	459	0	0	468	0	0	477	0	0
10	0	0	510	0	0	520	0	0	530	0	0
20	0	0	1020	0	0	1040	0	0	1060	0	0
30	0	0	1530	0	0	1560	0	0	1590	0	0
40	0	0	2040	0	0	2080	0	0	2120	0	0
50	0	0	2550	0	0	2600	0	0	2650	0	0
60	0	0	3060	0	0	3120	0	0	3180	0	0
70	0	0	3570	0	0	3640	0	0	3710	0	0
80	0	0	4080	0	0	4160	0	0	4240	0	0
90	0	0	4590	0	0	4680	0	0	4770	0	0
100	0	0	5100	0	0	5200	0	0	5300	0	0
200	0	0	10,200	0	0	10,400	0	0	10,600	0	0
300	0	0	15,300	0	0	15,600	0	0	15,900	0	0
400	0	0	20,400	0	0	20,800	0	0	21,200	0	0
500	0	0	25,500	0	0	26,000	0	0	26,500	0	0
1000	0	0	51,000	0	0	52,000	0	0	53,000	0	0
2000	0	0	102,000	0	0	104,000	0	0	106,000	0	0

Digitized by Google

Price from Fifty-four to Fifty-six Pounds per Acre.

AREA.			At £54.			At £55.			At £56.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	6	9	0	6	10½	0	7	0
0	0	2	0	13	6	0	13	9	0	14	0
0	0	3	1	0	3	1	0	7½	1	1	0
0	0	4	1	7	0	1	7	6	1	8	0
0	0	5	1	13	9	1	14	4½	1	15	0
0	0	6	2	0	6	2	1	3	2	2	0
0	0	7	2	7	3	2	8	1½	2	9	0
0	0	8	2	14	0	2	15	0	2	16	0
0	0	9	3	0	9	3	1	10½	3	3	0
0	0	10	3	7	6	3	8	9	3	10	0
0	0	20	6	15	0	6	17	6	7	0	0
0	0	30	10	2	6	10	6	3	10	10	0
0	1	0	13	10	0	13	15	0	14	0	0
0	2	0	27	0	0	27	10	0	28	0	0
0	3	0	40	10	0	41	5	0	42	0	0
1	0	0	54	0	0	55	0	0	56	0	0
2	0	0	108	0	0	110	0	0	112	0	0
3	0	0	162	0	0	165	0	0	168	0	0
4	0	0	216	0	0	220	0	0	224	0	0
5	0	0	270	0	0	275	0	0	280	0	0
6	0	0	324	0	0	330	0	0	336	0	0
7	0	0	378	0	0	385	0	0	392	0	0
8	0	0	432	0	0	440	0	0	448	0	0
9	0	0	486	0	0	495	0	0	504	0	0
10	0	0	540	0	0	550	0	0	560	0	0
20	0	0	1080	0	0	1100	0	0	1120	0	0
30	0	0	1620	0	0	1650	0	0	1680	0	0
40	0	0	2160	0	0	2200	0	0	2240	0	0
50	0	0	2700	0	0	2750	0	0	2800	0	0
60	0	0	3240	0	0	3300	0	0	3360	0	0
70	0	0	3780	0	0	3850	0	0	3920	0	0
80	0	0	4320	0	0	4400	0	0	4480	0	0
90	0	0	4860	0	0	4950	0	0	5040	0	0
100	0	0	5400	0	0	5500	0	0	5600	0	0
200	0	0	10,800	0	0	11,000	0	0	11,200	0	0
300	0	0	16,200	0	0	16,500	0	0	16,800	0	0
400	0	0	21,600	0	0	22,000	0	0	22,400	0	0
500	0	0	27,000	0	0	27,500	0	0	28,000	0	0
1000	0	0	54,000	0	0	55,000	0	0	56,000	0	0
2000	0	0	108,000	0	0	110,000	0	0	112,000	0	0

Digitized by Google

Price from Fifty-seven to Fifty-nine Pounds per Acre.

AREA.			At £57.			At £58.			At £59.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	7	1½	0	7	3	0	7	4½
0	0	2	0	14	3	0	14	6	0	14	9
0	0	3	1	1	4½	1	1	9	1	2	1½
0	0	4	1	8	6	1	9	0	1	9	6
0	0	5	1	15	7½	1	16	3	1	16	10½
0	0	6	2	2	9	2	3	6	2	4	3
0	0	7	2	9	10½	2	10	9	2	11	7½
0	0	8	2	17	0	2	18	0	2	19	0
0	0	9	3	4	1½	3	5	3	3	6	4½
0	0	10	3	11	3	3	12	6	3	13	9
0	0	20	7	2	6	7	5	0	7	7	6
0	0	30	10	13	9	10	17	6	11	1	3
0	1	0	14	5	0	14	10	0	14	15	0
0	2	0	28	10	0	29	0	0	29	10	0
0	3	0	42	15	0	43	10	0	44	5	0
1	0	0	57	0	0	58	0	0	59	0	0
2	0	0	114	0	0	116	0	0	118	0	0
3	0	0	171	0	0	174	0	0	177	0	0
4	0	0	228	0	0	232	0	0	236	0	0
5	0	0	285	0	0	290	0	0	295	0	0
6	0	0	342	0	0	348	0	0	354	0	0
7	0	0	399	0	0	406	0	0	413	0	0
8	0	0	456	0	0	464	0	0	472	0	0
9	0	0	513	0	0	522	0	0	531	0	0
10	0	0	570	0	0	580	0	0	590	0	0
20	0	0	1140	0	0	1160	0	0	1180	0	0
30	0	0	1710	0	0	1740	0	0	1770	0	0
40	0	0	2280	0	0	2320	0	0	2360	0	0
50	0	0	2850	0	0	2900	0	0	2950	0	0
60	0	0	3420	0	0	3480	0	0	3540	0	0
70	0	0	3990	0	0	4060	0	0	4130	0	0
80	0	0	4560	0	0	4640	0	0	4720	0	0
90	0	0	5130	0	0	5220	0	0	5310	0	0
100	0	0	5700	0	0	5800	0	0	5900	0	0
200	0	0	11,400	0	0	11,600	0	0	11,800	0	0
300	0	0	17,100	0	0	17,400	0	0	17,700	0	0
400	0	0	22,800	0	0	23,200	0	0	23,600	0	0
500	0	0	28,500	0	0	29,000	0	0	29,500	0	0
1000	0	0	57,000	0	0	58,000	0	0	59,000	0	0
2000	0	0	114,000	0	0	116,000	0	0	118,000	0	0

Digitized by Google

Price from Sixty to Sixty-two Pounds per Acre.

AREA.			At £60.			At £61.			At £62.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	7	6	0	7	7½	0	7	9
0	0	2	0	15	0	0	15	3	0	15	6
0	0	3	1	2	6	1	2	10½	1	3	3
0	0	4	1	10	0	1	10	6	1	11	0
0	0	5	1	17	6	1	18	1½	1	18	9
0	0	6	2	5	0	2	5	9	2	6	6
0	0	7	2	12	6	2	13	4½	2	14	3
0	0	8	3	0	0	3	1	0	3	2	0
0	0	9	3	7	6	3	8	7½	3	9	9
0	0	10	3	15	0	3	16	3	3	17	6
0	0	20	7	10	0	7	12	6	7	15	0
0	0	30	11	5	0	11	8	9	11	12	6
0	1	0	15	0	0	15	5	0	15	10	0
0	2	0	30	0	0	30	10	0	31	0	0
0	3	0	45	0	0	45	15	0	46	10	0
1	0	0	60	0	0	61	0	0	62	0	0
2	0	0	120	0	0	122	0	0	124	0	0
3	0	0	180	0	0	183	0	0	186	0	0
4	0	0	240	0	0	244	0	0	248	0	0
5	0	0	300	0	0	305	0	0	310	0	0
6	0	0	360	0	0	366	0	0	372	0	0
7	0	0	420	0	0	427	0	0	434	0	0
8	0	0	480	0	0	488	0	0	496	0	0
9	0	0	540	0	0	549	0	0	558	0	0
10	0	0	600	0	0	610	0	0	620	0	0
20	0	0	1200	0	0	1220	0	0	1240	0	0
30	0	0	1800	0	0	1830	0	0	1860	0	0
40	0	0	2400	0	0	2440	0	0	2480	0	0
50	0	0	3000	0	0	3050	0	0	3100	0	0
60	0	0	3600	0	0	3660	0	0	3720	0	0
70	0	0	4200	0	0	4270	0	0	4340	0	0
80	0	0	4800	0	0	4880	0	0	4960	0	0
90	0	0	5400	0	0	5490	0	0	5580	0	0
100	0	0	6000	0	0	6100	0	0	6200	0	0
200	0	0	12,000	0	0	12,200	0	0	12,400	0	0
300	0	0	18,000	0	0	18,300	0	0	18,600	0	0
400	0	0	24,000	0	0	24,400	0	0	24,800	0	0
500	0	0	30,000	0	0	30,500	0	0	31,000	0	0
1000	0	0	60,000	0	0	61,000	0	0	62,000	0	0
2000	0	0	120,000	0	0	122,000	0	0	124,000	0	0

Digitized by Google

Price from Sixty-three to Sixty-five Pounds per Acre.

AREA.			At £63.			At £64.			At £65.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	7	10½	0	8	0	0	8	1½
0	0	2	0	15	9	0	16	0	0	16	3
0	0	3	1	3	7½	1	4	0	1	4	4½
0	0	4	1	11	6	1	12	0	1	12	6
0	0	5	1	19	4½	2	0	0	2	0	7½
0	0	6	2	7	3	2	8	0	2	8	9
0	0	7	2	15	1½	2	16	0	2	16	10½
0	0	8	3	3	0	3	4	0	3	5	0
0	0	9	3	10	10½	3	12	0	3	13	1½
0	0	10	3	18	9	4	0	0	4	1	3
0	0	20	7	17	6	8	0	0	8	2	6
0	0	30	11	16	3	12	0	0	12	3	9
0	1	0	15	15	0	16	0	0	16	5	0
0	2	0	31	10	0	32	0	0	32	10	0
0	3	0	47	5	0	48	0	0	48	15	0
1	0	0	63	0	0	64	0	0	65	0	0
2	0	0	126	0	0	128	0	0	130	0	0
3	0	0	189	0	0	192	0	0	195	0	0
4	0	0	252	0	0	256	0	0	260	0	0
5	0	0	315	0	0	320	0	0	325	0	0
6	0	0	378	0	0	384	0	0	390	0	0
7	0	0	441	0	0	448	0	0	455	0	0
8	0	0	504	0	0	512	0	0	520	0	0
9	0	0	567	0	0	576	0	0	585	0	0
10	0	0	630	0	0	640	0	0	650	0	0
20	0	0	1260	0	0	1280	0	0	1300	0	0
30	0	0	1890	0	0	1920	0	0	1950	0	0
40	0	0	2520	0	0	2560	0	0	2600	0	0
50	0	0	3150	0	0	3200	0	0	3250	0	0
60	0	0	3780	0	0	3840	0	0	3900	0	0
70	0	0	4410	0	0	4480	0	0	4550	0	0
80	0	0	5040	0	0	5120	0	0	5200	0	0
90	0	0	5670	0	0	5760	0	0	5850	0	0
100	0	0	6300	0	0	6400	0	0	6500	0	0
200	0	0	12,600	0	0	12,800	0	0	13,000	0	0
300	0	0	18,900	0	0	19,200	0	0	19,500	0	0
400	0	0	25,200	0	0	25,600	0	0	26,000	0	0
500	0	0	31,500	0	0	32,000	0	0	32,500	0	0
1000	0	0	63,000	0	0	64,000	0	0	65,000	0	0
2000	0	0	126,000	0	0	128,000	0	0	130,000	0	0

Digitized by Google

Price from Sixty-six to Sixty-eight Pounds per Acre.

AREA.			At £66.			At £67.			At £68.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	8	3	0	8	4½	0	8	6
0	0	2	0	16	6	0	16	9	0	17	0
0	0	3	1	4	9	1	5	1½	1	5	6
0	0	4	1	13	0	1	13	6	1	14	0
0	0	5	2	1	3	2	1	10½	2	2	6
0	0	6	2	9	6	2	10	3	2	11	0
0	0	7	2	17	9	2	18	7½	2	19	6
0	0	8	3	6	0	3	7	0	3	8	0
0	0	9	3	14	3	3	15	4½	3	16	6
0	0	10	4	2	6	4	3	9	4	5	0
0	0	20	8	5	0	8	7	6	8	10	0
0	0	30	12	7	6	12	11	3	12	15	0
0	1	0	16	10	0	16	15	0	17	0	0
0	2	0	33	0	0	33	10	0	34	0	0
0	3	0	49	10	0	50	5	0	51	0	0
1	0	0	66	0	0	67	0	0	68	0	0
2	0	0	132	0	0	134	0	0	136	0	0
3	0	0	198	0	0	201	0	0	204	0	0
4	0	0	264	0	0	268	0	0	272	0	0
5	0	0	330	0	0	335	0	0	340	0	0
6	0	0	396	0	0	402	0	0	408	0	0
7	0	0	462	0	0	469	0	0	476	0	0
8	0	0	528	0	0	536	0	0	544	0	0
9	0	0	594	0	0	603	0	0	612	0	0
10	0	0	660	0	0	670	0	0	680	0	0
20	0	0	1320	0	0	1340	0	0	1360	0	0
30	0	0	1980	0	0	2010	0	0	2040	0	0
40	0	0	2640	0	0	2680	0	0	2720	0	0
50	0	0	3300	0	0	3350	0	0	3400	0	0
60	0	0	3960	0	0	4020	0	0	4080	0	0
70	0	0	4620	0	0	4690	0	0	4760	0	0
80	0	0	5280	0	0	5360	0	0	5440	0	0
90	0	0	5940	0	0	6030	0	0	6120	0	0
100	0	0	6600	0	0	6700	0	0	6800	0	0
200	0	0	13,200	0	0	13,400	0	0	13,600	0	0
300	0	0	19,800	0	0	20,100	0	0	20,400	0	0
400	0	0	26,400	0	0	26,800	0	0	27,200	0	0
500	0	0	33,000	0	0	33,500	0	0	34,000	0	0
1000	0	0	66,000	0	0	67,000	0	0	68,000	0	0
2000	0	0	132,000	0	0	134,000	0	0	136,000	0	0

Digitized by Google

Price from Sixty-nine to Seventy-one Pounds per Acre.

AREA.			At £69.			At £70.			At £71.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	8	7½	0	8	9	0	8	10½
0	0	2	0	17	3	0	17	6	0	17	9
0	0	3	1	5	10½	1	6	3	1	6	7½
0	0	4	1	14	6	1	15	0	1	15	6
0	0	5	2	3	1½	2	3	9	2	4	4½
0	0	6	2	11	9	2	12	6	2	13	3
0	0	7	3	0	4½	3	1	3	3	2	1½
0	0	8	3	9	0	3	10	0	3	11	0
0	0	9	3	17	7½	3	18	9	3	19	10½
0	0	10	4	6	3	4	7	6	4	8	9
0	0	20	8	12	6	8	15	0	8	17	6
0	0	30	12	18	9	13	2	6	13	6	3
0	1	0	17	5	0	17	10	0	17	15	0
0	2	0	34	10	0	35	0	0	35	10	0
0	3	0	51	15	0	52	10	0	53	5	0
1	0	0	69	0	0	70	0	0	71	0	0
2	0	0	138	0	0	140	0	0	142	0	0
3	0	0	207	0	0	210	0	0	213	0	0
4	0	0	276	0	0	280	0	0	284	0	0
5	0	0	345	0	0	350	0	0	355	0	0
6	0	0	414	0	0	420	0	0	426	0	0
7	0	0	483	0	0	490	0	0	497	0	0
8	0	0	552	0	0	560	0	0	568	0	0
9	0	0	621	0	0	630	0	0	639	0	0
10	0	0	690	0	0	700	0	0	710	0	0
20	0	0	1380	0	0	1400	0	0	1420	0	0
30	0	0	2070	0	0	2100	0	0	2130	0	0
40	0	0	2760	0	0	2800	0	0	2840	0	0
50	0	0	3450	0	0	3500	0	0	3550	0	0
60	0	0	4140	0	0	4200	0	0	4260	0	0
70	0	0	4830	0	0	4900	0	0	4970	0	0
80	0	0	5520	0	0	5600	0	0	5680	0	0
90	0	0	6210	0	0	6300	0	0	6390	0	0
100	0	0	6900	0	0	7000	0	0	7100	0	0
200	0	0	13,800	0	0	14,000	0	0	14,200	0	0
300	0	0	20,700	0	0	21,000	0	0	21,300	0	0
400	0	0	27,600	0	0	28,000	0	0	28,400	0	0
500	0	0	34,500	0	0	35,000	0	0	35,500	0	0
1000	0	0	69,000	0	0	70,000	0	0	71,000	0	0
2000	0	0	138,000	0	0	140,000	0	0	142,000	0	0

Digitized by Google

Price from Seventy-two to Seventy-four Pounds per Acre.

AREA.			At £72.			At £73.			At £74.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	9	0	0	9	1½	0	9	3
0	0	2	0	18	0	0	18	3	0	18	6
0	0	3	1	7	0	1	7	4½	1	7	9
0	0	4	1	16	0	1	16	6	1	17	0
0	0	5	2	5	0	2	5	7½	2	6	3
0	0	6	2	14	0	2	14	9	2	15	6
0	0	7	3	3	0	3	3	10½	3	4	9
0	0	8	3	12	0	3	13	0	3	14	0
0	0	9	4	1	0	4	2	1½	4	3	3
0	0	10	4	10	0	4	11	3	4	12	6
0	0	20	9	0	0	9	2	6	9	5	0
0	0	30	13	10	0	13	13	9	13	17	6
0	1	0	18	0	0	18	5	0	18	10	0
0	2	0	36	0	0	36	10	0	37	0	0
0	3	0	54	0	0	54	15	0	55	10	0
1	0	0	72	0	0	73	0	0	74	0	0
2	0	0	144	0	0	146	0	0	148	0	0
3	0	0	216	0	0	219	0	0	222	0	0
4	0	0	288	0	0	292	0	0	296	0	0
5	0	0	360	0	0	365	0	0	370	0	0
6	0	0	432	0	0	438	0	0	444	0	0
7	0	0	504	0	0	511	0	0	518	0	0
8	0	0	576	0	0	584	0	0	592	0	0
9	0	0	648	0	0	657	0	0	666	0	0
10	0	0	720	0	0	730	0	0	740	0	0
20	0	0	1440	0	0	1460	0	0	1480	0	0
30	0	0	2160	0	0	2190	0	0	2220	0	0
40	0	0	2880	0	0	2920	0	0	2960	0	0
50	0	0	3600	0	0	3650	0	0	3700	0	0
60	0	0	4320	0	0	4380	0	0	4440	0	0
70	0	0	5040	0	0	5110	0	0	5180	0	0
80	0	0	5760	0	0	5840	0	0	5920	0	0
90	0	0	6480	0	0	6570	0	0	6660	0	0
100	0	0	7200	0	0	7300	0	0	7400	0	0
200	0	0	14,400	0	0	14,600	0	0	14,800	0	0
300	0	0	21,600	0	0	21,900	0	0	22,200	0	0
400	0	0	28,800	0	0	29,200	0	0	29,600	0	0
500	0	0	36,000	0	0	36,500	0	0	37,000	0	0
1000	0	0	72,000	0	0	73,000	0	0	74,000	0	0
2000	0	0	144,000	0	0	146,000	0	0	148,000	0	0

Digitized by Google

Price from Seventy-five to Seventy-seven Pounds per Acre.

AREA.			At £75.			£76.			At £77.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	9	4½	0	9	6	0	9	7½
0	0	2	0	18	9	0	19	0	0	19	3
0	0	3	1	8	1½	1	8	6	1	8	10½
0	0	4	1	17	6	1	18	0	1	18	6
0	0	5	2	6	10½	2	7	6	2	8	1½
0	0	6	2	16	3	2	17	0	2	17	9
0	0	7	3	5	7½	3	6	6	3	7	4½
0	0	8	3	15	0	3	16	0	3	17	0
0	0	9	4	4	4½	4	5	6	4	6	7½
0	0	10	4	13	9	4	15	0	4	16	3
0	0	20	9	7	6	9	10	0	9	12	6
0	0	30	14	1	3	14	5	0	14	8	9
0	1	0	18	15	0	19	0	0	19	5	0
0	2	0	37	10	0	38	0	0	38	10	0
0	3	0	56	5	0	57	0	0	57	15	0
1	0	0	75	0	0	76	0	0	77	0	0
2	0	0	150	0	0	152	0	0	154	0	0
3	0	0	225	0	0	228	0	0	231	0	0
4	0	0	300	0	0	304	0	0	308	0	0
5	0	0	375	0	0	380	0	0	385	0	0
6	0	0	450	0	0	456	0	0	462	0	0
7	0	0	525	0	0	532	0	0	539	0	0
8	0	0	600	0	0	608	0	0	616	0	0
9	0	0	675	0	0	684	0	0	693	0	0
10	0	0	750	0	0	760	0	0	770	0	0
20	0	0	1500	0	0	1520	0	0	1540	0	0
30	0	0	2250	0	0	2280	0	0	2310	0	0
40	0	0	3000	0	0	3040	0	0	3080	0	0
50	0	0	3750	0	0	3800	0	0	3850	0	0
60	0	0	4500	0	0	4560	0	0	4620	0	0
70	0	0	5250	0	0	5320	0	0	5390	0	0
80	0	0	6000	0	0	6080	0	0	6160	0	0
90	0	0	6750	0	0	6840	0	0	6930	0	0
100	0	0	7500	0	0	7600	0	0	7700	0	0
200	0	0	15,000	0	0	15,200	0	0	15,400	0	0
300	0	0	22,500	0	0	22,800	0	0	23,100	0	0
400	0	0	30,000	0	0	30,400	0	0	30,800	0	0
500	0	0	37,500	0	0	38,000	0	0	38,500	0	0
1000	0	0	75,000	0	0	76,000	0	0	77,000	0	0
2000	0	0	150,000	0	0	152,000	0	0	154,000	0	0

Digitized by Google

Price from Seventy-eight to Eighty Pounds per Acre.

AREA.			At £78.			At £79.			At £80.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	9	9	0	9	10½	0	10	0
0	0	2	0	19	6	0	19	9	1	0	0
0	0	3	1	9	3	1	9	7½	1	10	0
0	0	4	1	19	0	1	19	6	2	0	0
0	0	5	2	8	9	2	9	4½	2	10	0
0	0	6	2	18	6	2	19	3	3	0	0
0	0	7	3	8	3	3	9	1½	3	10	0
0	0	8	3	18	0	3	19	0	4	0	0
0	0	9	4	7	9	4	8	10½	4	10	0
0	0	10	4	17	6	4	18	9	5	0	0
0	0	20	9	15	0	9	17	6	10	0	0
0	0	30	14	12	6	14	16	3	15	0	0
0	1	0	19	10	0	19	15	0	20	0	0
0	2	0	39	0	0	39	10	0	40	0	0
0	3	0	58	10	0	59	5	0	60	0	0
1	0	0	78	0	0	79	0	0	80	0	0
2	0	0	156	0	0	158	0	0	160	0	0
3	0	0	234	0	0	237	0	0	240	0	0
4	0	0	312	0	0	316	0	0	320	0	0
5	0	0	390	0	0	395	0	0	400	0	0
6	0	0	468	0	0	474	0	0	480	0	0
7	0	0	546	0	0	553	0	0	560	0	0
8	0	0	624	0	0	632	0	0	640	0	0
9	0	0	702	0	0	711	0	0	720	0	0
10	0	0	780	0	0	790	0	0	800	0	0
20	0	0	1560	0	0	1580	0	0	1600	0	0
30	0	0	2340	0	0	2370	0	0	2400	0	0
40	0	0	3120	0	0	3160	0	0	3200	0	0
50	0	0	3900	0	0	3950	0	0	4000	0	0
60	0	0	4680	0	0	4740	0	0	4800	0	0
70	0	0	5460	0	0	5530	0	0	5600	0	0
80	0	0	6240	0	0	6320	0	0	6400	0	0
90	0	0	7020	0	0	7110	0	0	7200	0	0
100	0	0	7800	0	0	7900	0	0	8000	0	0
200	0	0	15,600	0	0	15,800	0	0	16,000	0	0
300	0	0	23,400	0	0	23,700	0	0	24,000	0	0
400	0	0	31,200	0	0	31,600	0	0	32,000	0	0
500	0	0	39,000	0	0	39,500	0	0	40,000	0	0
1000	0	0	78,000	0	0	79,000	0	0	80,000	0	0
2000	0	0	156,000	0	0	158,000	0	0	160,000	0	0

Digitized by Google

Price from Eighty-one to Eighty-three Pounds per Acre.

AREA.			At £81.			At £82.			At £83.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	10	1½	0	10	3	0	10	4½
0	0	2	1	0	3	1	0	6	1	0	9
0	0	3	1	10	4½	1	10	9	1	11	1½
0	0	4	2	0	6	2	1	0	2	1	6
0	0	5	2	10	7½	2	11	3	2	11	10½
0	0	6	3	0	9	3	1	6	3	2	3
0	0	7	3	10	10½	3	11	9	3	12	7½
0	0	8	4	1	0	4	2	0	4	3	0
0	0	9	4	11	1½	4	12	3	4	13	4½
0	0	10	5	1	3	5	2	6	5	3	9
0	0	20	10	2	6	10	5	0	10	7	6
0	0	30	15	3	9	15	7	6	15	11	3
0	1	0	20	5	0	20	10	0	20	15	0
0	2	0	40	10	0	41	0	0	41	10	0
0	3	0	60	15	0	61	10	0	62	5	0
1	0	0	81	0	0	82	0	0	83	0	0
2	0	0	162	0	0	164	0	0	166	0	0
3	0	0	243	0	0	246	0	0	249	0	0
4	0	0	324	0	0	328	0	0	332	0	0
5	0	0	405	0	0	410	0	0	415	0	0
6	0	0	486	0	0	492	0	0	498	0	0
7	0	0	567	0	0	574	0	0	581	0	0
8	0	0	648	0	0	656	0	0	664	0	0
9	0	0	729	0	0	738	0	0	747	0	0
10	0	0	810	0	0	820	0	0	830	0	0
20	0	0	1620	0	0	1640	0	0	1660	0	0
30	0	0	2430	0	0	2460	0	0	2490	0	0
40	0	0	3240	0	0	3280	0	0	3320	0	0
50	0	0	4050	0	0	4100	0	0	4150	0	0
60	0	0	4860	0	0	4920	0	0	4980	0	0
70	0	0	5670	0	0	5740	0	0	5810	0	0
80	0	0	6480	0	0	6560	0	0	6640	0	0
90	0	0	7290	0	0	7380	0	0	7470	0	0
100	0	0	8100	0	0	8200	0	0	8300	0	0
200	0	0	16,200	0	0	16,400	0	0	16,600	0	0
300	0	0	24,300	0	0	24,600	0	0	24,900	0	0
400	0	0	32,400	0	0	32,800	0	0	33,200	0	0
500	0	0	40,500	0	0	41,000	0	0	41,500	0	0
1000	0	0	81,000	0	0	82,000	0	0	83,000	0	0
2000	0	0	162,000	0	0	164,000	0	0	166,000	0	0

Digitized by Google

Price from Eighty-four to Eighty-six Pounds per Acre.

AREA.			At £84.			At £85.			At £86.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	10	6	0	10	7½	0	10	9
0	0	2	1	1	0	1	1	3	1	1	6
0	0	3	1	11	6	1	11	10½	1	12	3
0	0	4	2	2	0	2	2	6	2	3	0
0	0	5	2	12	6	2	13	1½	2	13	9
0	0	6	3	3	0	3	3	9	3	4	6
0	0	7	3	13	6	3	14	4½	3	15	3
0	0	8	4	4	4	4	5	0	4	6	0
0	0	9	4	14	6	4	15	7½	4	16	9
0	0	10	5	5	0	5	6	3	5	7	6
0	0	20	10	10	0	10	12	6	10	15	0
0	0	30	15	15	0	15	18	9	16	2	6
0	1	0	21	0	0	21	5	0	21	10	0
0	2	0	42	0	0	42	10	0	43	0	0
0	3	0	63	0	0	63	15	0	64	10	0
1	0	0	84	0	0	85	0	0	86	0	0
2	0	0	168	0	0	170	0	0	172	0	0
3	0	0	252	0	0	255	0	0	258	0	0
4	0	0	336	0	0	340	0	0	344	0	0
5	0	0	420	0	0	425	0	0	430	0	0
6	0	0	504	0	0	510	0	0	516	0	0
7	0	0	588	0	0	595	0	0	602	0	0
8	0	0	672	0	0	680	0	0	688	0	0
9	0	0	756	0	0	765	0	0	774	0	0
10	0	0	840	0	0	850	0	0	860	0	0
20	0	0	1680	0	0	1700	0	0	1720	0	0
30	0	0	2520	0	0	2550	0	0	2580	0	0
40	0	0	3360	0	0	3400	0	0	3440	0	0
50	0	0	4200	0	0	4250	0	0	4300	0	0
60	0	0	5040	0	0	5100	0	0	5160	0	0
70	0	0	5880	0	0	5950	0	0	6020	0	0
80	0	0	6720	0	0	6800	0	0	6880	0	0
90	0	0	7560	0	0	7650	0	0	7740	0	0
100	0	0	8400	0	0	8500	0	0	8600	0	0
200	0	0	16,800	0	0	17,000	0	0	17,200	0	0
300	0	0	25,200	0	0	25,500	0	0	25,800	0	0
400	0	0	33,600	0	0	34,000	0	0	34,400	0	0
500	0	0	42,000	0	0	42,500	0	0	43,000	0	0
1000	0	0	84,000	0	0	85,000	0	0	86,000	0	0
2000	0	0	168,000	0	0	170,000	0	0	172,000	0	0

Digitized by Google

Price from Eighty-seven to Eighty-nine Pounds per Acre.

AREA.			At £87.			At £88.			At £89.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	10	10½	0	11	0	0	11	1½
0	0	2	1	1	9	1	2	0	1	2	3
0	0	3	1	12	7½	1	13	0	1	13	4½
0	0	4	2	3	6	2	4	0	2	4	6
0	0	5	2	14	4½	2	15	0	2	15	7½
0	0	6	3	5	3	3	6	0	3	6	9
0	0	7	3	16	1½	3	17	0	3	17	10½
0	0	8	4	7	0	4	8	0	4	9	0
0	0	9	4	17	10½	4	19	0	5	0	1½
0	0	10	5	8	9	5	10	0	5	11	3
0	0	20	10	17	6	11	0	0	11	2	6
0	0	30	16	6	3	16	10	0	16	13	9
0	1	0	21	15	0	22	0	0	22	5	0
0	2	0	43	10	0	44	0	0	44	10	0
0	3	0	65	5	0	66	0	0	66	15	0
1	0	0	87	0	0	88	0	0	89	0	0
2	0	0	174	0	0	176	0	0	178	0	0
3	0	0	261	0	0	264	0	0	267	0	0
4	0	0	348	0	0	352	0	0	356	0	0
5	0	0	435	0	0	440	0	0	445	0	0
6	0	0	522	0	0	528	0	0	534	0	0
7	0	0	609	0	0	616	0	0	623	0	0
8	0	0	696	0	0	704	0	0	712	0	0
9	0	0	783	0	0	792	0	0	801	0	0
10	0	0	870	0	0	880	0	0	890	0	0
20	0	0	1740	0	0	1760	0	0	1780	0	0
30	0	0	2610	0	0	2640	0	0	2670	0	0
40	0	0	3480	0	0	3520	0	0	3560	0	0
50	0	0	4350	0	0	4400	0	0	4450	0	0
60	0	0	5220	0	0	5280	0	0	5340	0	0
70	0	0	6090	0	0	6160	0	0	6230	0	0
80	0	0	6960	0	0	7040	0	0	7120	0	0
90	0	0	7830	0	0	7920	0	0	8010	0	0
100	0	0	8700	0	0	8800	0	0	8900	0	0
200	0	0	17,400	0	0	17,600	0	0	17,800	0	0
300	0	0	26,100	0	0	26,400	0	0	26,700	0	0
400	0	0	34,800	0	0	35,200	0	0	35,600	0	0
500	0	0	43,500	0	0	44,000	0	0	44,500	0	0
1000	0	0	87,000	0	0	88,000	0	0	89,000	0	0
2000	0	0	174,000	0	0	176,000	0	0	178,000	0	0

Digitized by Google

Price from Ninety to Ninety-two Pounds per Acre.

AREA.			At £90.			At £91.			At £92.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	11	3	0	11	4½	0	11	6
0	0	2	1	2	6	1	2	9	1	3	0
0	0	3	1	13	9	1	14	1½	1	14	6
0	0	4	2	5	0	2	5	6	2	6	0
0	0	5	2	16	3	2	16	10½	2	17	6
0	0	6	3	7	6	3	8	3	3	9	0
0	0	7	3	18	9	3	19	7½	4	0	6
0	0	8	4	10	0	4	11	0	4	12	0
0	0	9	5	1	3	5	2	4½	5	3	6
0	0	10	5	12	6	5	13	9	5	15	0
0	0	20	11	5	0	11	7	6	11	10	0
0	0	30	16	17	6	17	1	3	17	5	0
0	1	0	22	10	0	22	15	0	23	0	0
0	2	0	45	0	0	45	10	0	46	0	0
0	3	0	67	10	0	68	5	0	69	0	0
1	0	0	90	0	0	91	0	0	92	0	0
2	0	0	180	0	0	182	0	0	184	0	0
3	0	0	270	0	0	273	0	0	276	0	0
4	0	0	360	0	0	364	0	0	368	0	0
5	0	0	450	0	0	455	0	0	460	0	0
6	0	0	540	0	0	546	0	0	552	0	0
7	0	0	630	0	0	637	0	0	644	0	0
8	0	0	720	0	0	728	0	0	736	0	0
9	0	0	810	0	0	819	0	0	828	0	0
10	0	0	900	0	0	910	0	0	920	0	0
20	0	0	1800	0	0	1820	0	0	1840	0	0
30	0	0	2700	0	0	2730	0	0	2760	0	0
40	0	0	3600	0	0	3640	0	0	3680	0	0
50	0	0	4500	0	0	4550	0	0	4600	0	0
60	0	0	5400	0	0	5460	0	0	5520	0	0
70	0	0	6300	0	0	6370	0	0	6440	0	0
80	0	0	7200	0	0	7280	0	0	7360	0	0
90	0	0	8100	0	0	8190	0	0	8280	0	0
100	0	0	9000	0	0	9100	0	0	9200	0	0
200	0	0	18,000	0	0	18,200	0	0	18,400	0	0
300	0	0	27,000	0	0	27,300	0	0	27,600	0	0
400	0	0	36,000	0	0	36,400	0	0	36,800	0	0
500	0	0	45,000	0	0	45,500	0	0	46,000	0	0
1000	0	0	90,000	0	0	91,000	0	0	92,000	0	0
2000	0	0	180,000	0	0	182,000	0	0	184,000	0	0

Digitized by Google

Price from Ninety-three to Ninety-five Pounds per Acre.

AREA.			At £93.			At £94.			At £95.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	11	7½	0	11	9	0	11	10½
0	0	2	1	3	3	1	3	6	1	3	9
0	0	3	1	14	10½	1	15	3	1	15	7½
0	0	4	2	6	6	2	7	0	2	7	6
0	0	5	2	18	1½	2	18	9	2	19	4½
0	0	6	3	9	9	3	10	6	3	11	3
0	0	7	4	1	4½	4	2	3	4	3	1½
0	0	8	4	13	0	4	14	0	4	15	0
0	0	9	5	4	7½	5	5	9	5	6	10½
0	0	10	5	16	3	5	17	6	5	18	9
0	0	20	11	12	6	11	15	0	11	17	6
0	0	30	17	8	9	17	12	6	17	16	3
0	1	0	23	5	0	23	10	0	23	15	0
0	2	0	46	10	0	47	0	0	47	10	0
0	3	0	69	15	0	70	10	0	71	5	0
1	0	0	93	0	0	94	0	0	95	0	0
2	0	0	186	0	0	188	0	0	190	0	0
3	0	0	279	0	0	282	0	0	285	0	0
4	0	0	372	0	0	376	0	0	380	0	0
5	0	0	465	0	0	470	0	0	475	0	0
6	0	0	558	0	0	564	0	0	570	0	0
7	0	0	651	0	0	658	0	0	665	0	0
8	0	0	744	0	0	752	0	0	760	0	0
9	0	0	837	0	0	846	0	0	855	0	0
10	0	0	930	0	0	940	0	0	950	0	0
20	0	0	1860	0	0	1880	0	0	1900	0	0
30	0	0	2790	0	0	2820	0	0	2850	0	0
40	0	0	3720	0	0	3760	0	0	3800	0	0
50	0	0	4650	0	0	4700	0	0	4750	0	0
60	0	0	5580	0	0	5640	0	0	5700	0	0
70	0	0	6510	0	0	6580	0	0	6650	0	0
80	0	0	7440	0	0	7520	0	0	7600	0	0
90	0	0	8370	0	0	8460	0	0	8550	0	0
100	0	0	9300	0	0	9400	0	0	9500	0	0
200	0	0	18,600	0	0	18,800	0	0	19,000	0	0
300	0	0	27,900	0	0	28,200	0	0	28,500	0	0
400	0	0	37,200	0	0	37,600	0	0	38,000	0	0
500	0	0	46,500	0	0	47,000	0	0	47,500	0	0
1000	0	0	93,000	0	0	94,000	0	0	95,000	0	0
2000	0	0	186,000	0	0	188,000	0	0	190,000	0	0

Digitized by Google

Price from Ninety-six to Ninety-eight Pounds per Acre.

AREA.			At £96.			At £97.			At £98.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	12	0	0	12	1½	0	12	3
0	0	2	1	4	0	1	4	3	1	4	6
0	0	3	1	16	0	1	16	4½	1	16	9
0	0	4	2	8	0	2	8	6	2	9	0
0	0	5	3	0	0	3	0	7½	3	1	3
0	0	6	3	12	0	3	12	9	3	13	6
0	0	7	4	4	0	4	4	10½	4	5	9
0	0	8	4	16	0	4	17	0	4	18	0
0	0	9	5	8	0	5	9	1½	5	10	3
0	0	10	6	0	0	6	1	3	6	2	6
0	0	20	12	0	0	12	2	6	12	5	0
0	0	30	18	0	0	18	3	9	18	7	6
0	1	0	24	0	0	24	5	0	24	10	0
0	2	0	48	0	0	48	10	0	49	0	0
0	3	0	72	0	0	72	15	0	73	10	0
1	0	0	96	0	0	97	0	0	98	0	0
2	0	0	192	0	0	194	0	0	196	0	0
3	0	0	288	0	0	291	0	0	294	0	0
4	0	0	384	0	0	388	0	0	392	0	0
5	0	0	480	0	0	485	0	0	490	0	0
6	0	0	576	0	0	582	0	0	588	0	0
7	0	0	672	0	0	679	0	0	686	0	0
8	0	0	768	0	0	776	0	0	784	0	0
9	0	0	864	0	0	873	0	0	882	0	0
10	0	0	960	0	0	970	0	0	980	0	0
20	0	0	1920	0	0	1940	0	0	1960	0	0
30	0	0	2880	0	0	2910	0	0	2940	0	0
40	0	0	3840	0	0	3880	0	0	3920	0	0
50	0	0	4800	0	0	4850	0	0	4900	0	0
60	0	0	5760	0	0	5820	0	0	5880	0	0
70	0	0	6720	0	0	6790	0	0	6860	0	0
80	0	0	7680	0	0	7760	0	0	7840	0	0
90	0	0	8640	0	0	8730	0	0	8820	0	0
100	0	0	9600	0	0	9700	0	0	9800	0	0
200	0	0	19,200	0	0	19,400	0	0	19,600	0	0
300	0	0	28,800	0	0	29,100	0	0	29,400	0	0
400	0	0	38,400	0	0	38,800	0	0	39,200	0	0
500	0	0	48,000	0	0	48,500	0	0	49,000	0	0
1000	0	0	96,000	0	0	97,000	0	0	98,000	0	0
2000	0	0	192,000	0	0	194,000	0	0	196,000	0	0

Digitized by Google

Price from Ninety-nine to Two Hundred Pounds per Acre.

AREA.			At £99.			At £100.			At £200.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	0	12	4½	0	12	6	1	5	0
0	0	2	1	4	9	1	5	0	2	10	0
0	0	3	1	17	1½	1	17	6	3	15	0
0	0	4	2	9	6	2	10	0	5	0	0
0	0	5	3	1	10½	3	2	6	6	5	0
0	0	6	3	14	3	3	15	0	7	10	0
0	0	7	4	6	7½	4	7	6	8	15	0
0	0	8	4	19	0	5	0	0	10	0	0
0	0	9	5	11	4½	5	12	6	11	5	0
0	0	10	6	3	9	6	5	0	12	10	0
0	0	20	12	7	6	12	10	0	25	0	0
0	0	30	18	11	3	18	15	0	37	10	0
0	1	0	24	15	0	25	0	0	50	0	0
0	2	0	49	10	0	50	0	0	100	0	0
0	3	0	74	5	0	75	0	0	150	0	0
1	0	0	99	0	0	100	0	0	200	0	0
2	0	0	198	0	0	200	0	0	400	0	0
3	0	0	297	0	0	300	0	0	600	0	0
4	0	0	396	0	0	400	0	0	800	0	0
5	0	0	495	0	0	500	0	0	1000	0	0
6	0	0	594	0	0	600	0	0	1200	0	0
7	0	0	693	0	0	700	0	0	1400	0	0
8	0	0	792	0	0	800	0	0	1600	0	0
9	0	0	891	0	0	900	0	0	1800	0	0
10	0	0	990	0	0	1000	0	0	2000	0	0
20	0	0	1980	0	0	2000	0	0	4000	0	0
30	0	0	2970	0	0	3000	0	0	6000	0	0
40	0	0	3960	0	0	4000	0	0	8000	0	0
50	0	0	4950	0	0	5000	0	0	10,000	0	0
60	0	0	5940	0	0	6000	0	0	12,000	0	0
70	0	0	6930	0	0	7000	0	0	14,000	0	0
80	0	0	7920	0	0	8000	0	0	16,000	0	0
90	0	0	8910	0	0	9000	0	0	18,000	0	0
100	0	0	9900	0	0	10,000	0	0	20,000	0	0
200	0	0	19,800	0	0	20,000	0	0	40,000	0	0
300	0	0	29,700	0	0	30,000	0	0	60,000	0	0
400	0	0	39,600	0	0	40,000	0	0	80,000	0	0
500	0	0	49,500	0	0	50,000	0	0	100,000	0	0
1000	0	0	99,000	0	0	100,000	0	0	200,000	0	0
2000	0	0	198,000	0	0	200,000	0	0	400,000	0	0

Digitized by Google

Price from Three Hundred to Five Hundred Pounds per Acre.

AREA.			At £300.			At £400.			At £500.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	1	17	6	2	10	0	3	2	6
0	0	2	3	15	0	5	0	0	6	5	0
0	0	3	5	12	6	7	10	0	9	7	6
0	0	4	7	10	0	10	0	0	12	10	0
0	0	5	9	7	6	12	10	0	15	12	6
0	0	6	11	5	0	15	0	0	18	15	0
0	0	7	13	2	6	17	10	0	21	17	6
0	0	8	15	0	0	20	0	0	25	0	0
0	0	9	16	17	6	22	10	0	28	2	6
0	0	10	18	15	0	25	0	0	31	5	0
0	0	20	37	10	0	50	0	0	62	10	0
0	0	30	56	5	0	75	0	0	93	15	0
0	1	0	75	0	0	100	0	0	125	0	0
0	2	0	150	0	0	200	0	0	250	0	0
0	3	0	225	0	0	300	0	0	375	0	0
1	0	0	300	0	0	400	0	0	500	0	0
2	0	0	600	0	0	800	0	0	1000	0	0
3	0	0	900	0	0	1200	0	0	1500	0	0
4	0	0	1200	0	0	1600	0	0	2000	0	0
5	0	0	1500	0	0	2000	0	0	2500	0	0
6	0	0	1800	0	0	2400	0	0	3000	0	0
7	0	0	2100	0	0	2800	0	0	3500	0	0
8	0	0	2400	0	0	3200	0	0	4000	0	0
9	0	0	2700	0	0	3600	0	0	4500	0	0
10	0	0	3000	0	0	4000	0	0	5000	0	0
20	0	0	6000	0	0	8000	0	0	10,000	0	0
30	0	0	9000	0	0	12,000	0	0	15,000	0	0
40	0	0	12,000	0	0	16,000	0	0	20,000	0	0
50	0	0	15,000	0	0	20,000	0	0	25,000	0	0
60	0	0	18,000	0	0	24,000	0	0	30,000	0	0
70	0	0	21,000	0	0	28,000	0	0	35,000	0	0
80	0	0	24,000	0	0	32,000	0	0	40,000	0	0
90	0	0	27,000	0	0	36,000	0	0	45,000	0	0
100	0	0	30,000	0	0	40,000	0	0	50,000	0	0
200	0	0	60,000	0	0	80,000	0	0	100,000	0	0
300	0	0	90,000	0	0	120,000	0	0	150,000	0	0
400	0	0	120,000	0	0	160,000	0	0	200,000	0	0
500	0	0	150,000	0	0	200,000	0	0	250,000	0	0
1000	0	0	300,000	0	0	400,000	0	0	500,000	0	0
2000	0	0	600,000	0	0	800,000	0	0	1,000,000	0	0

Digitized by Google

Price from Six Hundred to Eight Hundred Pounds per Acre.

AREA.			At £600.			At £700.			At £800.		
A.	R.	P.	£	s.	d.	£	s.	d.	£	s.	d.
0	0	1	3	15	0	4	7	6	5	0	0
0	0	2	7	10	0	8	15	0	10	0	0
0	0	3	11	5	0	13	2	6	15	0	0
0	0	4	15	0	0	17	10	0	20	0	0
0	0	5	18	15	0	21	17	6	25	0	0
0	0	6	22	10	0	26	5	0	30	0	0
0	0	7	26	5	0	30	12	6	35	0	0
0	0	8	30	0	0	35	0	0	40	0	0
0	0	9	33	15	0	39	7	6	45	0	0
0	0	10	37	10	0	43	15	0	50	0	0
0	0	20	75	0	0	87	10	0	100	0	0
0	0	30	112	10	0	131	5	0	150	0	0
0	1	0	150	0	0	175	0	0	200	0	0
0	2	0	300	0	0	350	0	0	400	0	0
0	3	0	450	0	0	525	0	0	600	0	0
1	0	0	600	0	0	700	0	0	800	0	0
2	0	0	1200	0	0	1400	0	0	1600	0	0
3	0	0	1800	0	0	2100	0	0	2400	0	0
4	0	0	2400	0	0	2800	0	0	3200	0	0
5	0	0	3000	0	0	3500	0	0	4000	0	0
6	0	0	3600	0	0	4200	0	0	4800	0	0
7	0	0	4200	0	0	4900	0	0	5600	0	0
8	0	0	4800	0	0	5600	0	0	6400	0	0
9	0	0	5400	0	0	6300	0	0	7200	0	0
10	0	0	6000	0	0	7000	0	0	8000	0	0
20	0	0	12,000	0	0	14,000	0	0	16,000	0	0
30	0	0	18,000	0	0	21,000	0	0	24,000	0	0
40	0	0	24,000	0	0	28,000	0	0	32,000	0	0
50	0	0	30,000	0	0	35,000	0	0	40,000	0	0
60	0	0	36,000	0	0	42,000	0	0	48,000	0	0
70	0	0	42,000	0	0	49,000	0	0	56,000	0	0
80	0	0	48,000	0	0	56,000	0	0	64,000	0	0
90	0	0	54,000	0	0	63,000	0	0	72,000	0	0
100	0	0	60,000	0	0	70,000	0	0	80,000	0	0
200	0	0	120,000	0	0	140,000	0	0	160,000	0	0
300	0	0	180,000	0	0	210,000	0	0	240,000	0	0
400	0	0	240,000	0	0	280,000	0	0	320,000	0	0
500	0	0	300,000	0	0	350,000	0	0	400,000	0	0
1000	0	0	600,000	0	0	700,000	0	0	800,000	0	0
2000	0	0	1,200,000	0	0	1,400,000	0	0	1,600,000	0	0

Digitized by Google

Price from Nine Hundred to One Thousand Pounds per Acre.

AREA.			At £900.			At £1000.		
A.	R.	P.	£	s.	d.	£	s.	d.
0	0	1	5	12	6	6	5	0
0	0	2	11	5	0	12	10	0
0	0	3	16	17	6	18	15	0
0	0	4	22	10	0	25	0	0
0	0	5	28	2	6	31	5	0
0	0	6	33	15	0	37	10	0
0	0	7	39	7	6	43	15	0
0	0	8	45	0	0	50	0	0
0	0	9	50	12	6	56	5	0
0	0	10	56	5	0	62	10	0
0	0	20	112	10	0	125	0	0
0	0	30	168	15	0	187	10	0
0	1	0	225	0	0	250	0	0
0	2	0	450	0	0	500	0	0
0	3	0	675	0	0	750	0	0
1	0	0	900	0	0	1000	0	0
2	0	0	1800	0	0	2000	0	0
3	0	0	2700	0	0	3000	0	0
4	0	0	3600	0	0	4000	0	0
5	0	0	4500	0	0	5000	0	0
6	0	0	5400	0	0	6000	0	0
7	0	0	6300	0	0	7000	0	0
8	0	0	7200	0	0	8000	0	0
9	0	0	8100	0	0	9000	0	0
10	0	0	9000	0	0	10,000	0	0
20	0	0	18,000	0	0	20,000	0	0
30	0	0	27,000	0	0	30,000	0	0
40	0	0	36,000	0	0	40,000	0	0
50	0	0	45,000	0	0	50,000	0	0
60	0	0	54,000	0	0	60,000	0	0
70	0	0	63,000	0	0	70,000	0	0
80	0	0	72,000	0	0	80,000	0	0
90	0	0	81,000	0	0	90,000	0	0
100	0	0	90,000	0	0	100,000	0	0
200	0	0	180,000	0	0	200,000	0	0
300	0	0	270,000	0	0	300,000	0	0
400	0	0	360,000	0	0	400,000	0	0
500	0	0	450,000	0	0	500,000	0	0
1000	0	0	900,000	0	0	1,000,000	0	0
2000	0	0	1,800,000	0	0	2,000,000	0	0

Digitized by Google

TABLES for converting Statute Acres, Roods, Poles, (or Perches,) into the several Provincial Acres, Roods, Poles, (or Perches,) the Statute Pole or Perch being 16 *ft.* 6 *in.*

STATUTE.			Tenantry, or Wiltshire acre, of 120 perches.				Devonshire pole or perch of 15 ft.				Dorsetshire pole or perch of 15 ft. 1 in.			
A.	R.	P.	A.	R.	P.	YD.	A.	R.	P.	YD.	A.	R.	P.	YD.
0	0	1	0	0	1	0	0	0	1	6	0	0	1	6
0	0	2	0	0	2	0	0	0	2	13	0	0	2	12
0	0	3	0	0	3	0	0	0	3	19	0	0	3	18
0	0	4	0	0	4	0	0	0	4	25	0	0	4	24
0	0	5	0	0	5	0	0	0	6	2	0	0	5	30
0	0	6	0	0	6	0	0	0	7	8	0	0	7	5
0	0	7	0	0	7	0	0	0	8	14	0	0	8	11
0	0	8	0	0	8	0	0	0	9	20	0	0	9	17
0	0	9	0	0	9	0	0	0	10	27	0	0	10	23
0	0	10	0	0	10	0	0	0	12	3	0	0	11	29
0	0	20	0	0	20	0	0	0	24	6	0	0	23	28
0	0	30	0	1	0	0	0	0	36	9	0	0	35	27
0	1	0	0	1	10	0	0	1	8	12	0	1	7	26
0	2	0	0	2	20	0	0	2	16	24	0	2	15	22
0	3	0	1	0	0	0	0	3	25	6	0	3	23	18
1	0	0	1	1	10	0	1	0	33	18	1	0	31	14
2	0	0	2	2	20	0	2	1	27	6	2	1	22	29
3	0	0	4	0	0	0	3	2	20	24	3	2	14	13
4	0	0	5	1	10	0	4	3	14	12	4	3	5	27
5	0	0	6	2	20	0	6	0	8	0	5	3	37	10
6	0	0	8	0	0	0	7	1	1	18	7	0	28	24
7	0	0	9	1	10	0	8	1	35	6	8	1	20	8
8	0	0	10	2	20	0	9	2	28	24	9	2	11	23
9	0	0	12	0	0	0	10	3	22	12	10	3	3	6
10	0	0	13	1	10	0	12	0	16	0	11	3	34	20
20	0	0	26	2	20	0	24	0	32	0	23	3	29	10
30	0	0	40	0	0	0	36	1	8	0	35	3	24	0
40	0	0	53	1	10	0	48	1	24	0	47	3	18	20
50	0	0	66	2	20	0	60	2	0	0	59	3	13	10
60	0	0	80	0	0	0	72	2	16	0	71	3	8	0
70	0	0	93	1	10	0	84	2	32	0	83	3	2	20
80	0	0	106	2	20	0	96	3	8	0	95	2	37	10
90	0	0	120	0	0	0	108	3	24	0	107	2	32	0
100	0	0	133	1	10	0	121	0	0	0	119	2	26	20
200	0	0	266	2	20	0	242	0	0	0	239	1	13	10
300	0	0	400	0	0	0	363	0	0	0	359	0	0	0
400	0	0	533	1	10	0	484	0	0	0	478	2	26	21
500	0	0	666	2	20	0	605	0	0	0	598	1	13	10
1000	0	0	1333	1	10	0	1210	0	0	0	1196	2	26	20
2000	0	0	2666	2	20	0	2420	0	0	0	2393	1	12	10

Digitized by Google

TABLES for converting Statute Acres, Roods, Poles, (or Perches,) into the several Provincial Acres, Roods, Poles, (or Perches,) the Statute Pole or Perch being 16 *ft.* 6 *in.*

STATUTE.			Cornish pole or perch of 18 ft.				Irish pole or perch of 21 ft.				Cheshire pole or perch of 24 ft.			
A.	R.	P.	A.	R.	P.	YD.	A.	R.	P.	YD.	A.	R.	P.	YD.
0	0	1	0	0	0	25	0	0	0	18	0	0	0	14
0	0	2	0	0	1	21	0	0	1	7	0	0	0	28
0	0	3	0	0	2	16	0	0	1	26	0	0	1	13
0	0	4	0	0	3	12	0	0	2	14	0	0	1	27
0	0	5	0	0	4	6	0	0	3	2	0	0	2	12
0	0	6	0	0	5	1	0	0	3	21	0	0	2	25
0	0	7	0	0	5	27	0	0	4	9	0	0	3	9
0	0	8	0	0	6	22	0	0	4	28	0	0	3	24
0	0	9	0	0	7	17	0	0	5	17	0	0	4	8
0	0	10	0	0	8	12	0	0	6	5	0	0	4	22
0	0	20	0	0	16	24	0	0	12	11	0	0	9	14
0	0	30	0	0	25	6	0	0	18	16	0	0	14	6
0	1	0	0	0	33	18	0	0	24	21	0	0	18	27
0	2	0	0	1	27	6	0	1	9	12	0	0	37	25
0	3	0	0	2	20	25	0	1	34	3	0	1	16	22
1	0	0	0	3	14	13	0	2	18	23	0	1	35	19
2	0	0	1	2	28	27	1	0	37	17	0	3	31	8
3	0	0	2	2	3	10	1	3	16	10	1	1	26	26
4	0	0	3	1	17	24	2	1	35	3	1	3	22	15
5	0	0	4	0	32	6	3	0	13	26	2	1	18	4
6	0	0	5	0	6	20	3	2	32	20	2	3	13	23
7	0	0	5	3	21	3	4	1	11	13	3	1	9	12
8	0	0	6	2	35	17	4	3	30	6	3	3	5	0
9	0	0	7	2	10	0	5	2	8	29	4	1	0	19
10	0	0	8	1	24	13	6	0	27	23	4	2	36	8
20	0	0	16	3	8	27	12	1	15	15	9	1	32	15
30	0	0	25	0	33	10	18	2	3	8	14	0	28	23
40	0	0	33	2	17	24	24	2	31	0	18	3	25	0
50	0	0	42	0	2	7	30	3	18	24	23	2	21	8
60	0	0	50	1	26	20	37	0	6	6	28	1	17	15
70	0	0	58	3	11	3	43	0	34	8	33	0	13	23
80	0	0	67	0	35	17	49	1	22	1	37	3	10	0
90	0	0	75	2	20	0	55	2	9	24	42	2	6	8
100	0	0	84	0	4	13	61	2	37	17	47	1	2	15
200	0	0	168	0	8	27	123	1	35	3	94	2	5	0
300	0	0	252	0	13	10	185	0	32	20	141	3	7	15
400	0	0	336	0	17	24	246	3	30	6	189	0	10	0
500	0	0	420	0	22	7	308	2	27	23	236	1	12	15
1000	0	0	840	1	4	14	617	1	15	16	472	2	25	0
2000	0	0	1680	2	8	27	1234	2	31	1	945	1	10	0

Digitized by Google

TABLES for converting Provincial into Statute Measure.

Wiltshire 120 perches.			Statute.				Devonshire.			Statute.			
A.	R.	P.	A.	R.	P.	YD.	A.	R.	P.	A.	R.	P.	YD.
0	0	1	0	0	1	0	0	0	1	0	0	0	25
0	0	2	0	0	2	0	0	0	2	0	0	1	20
0	0	3	0	0	0	3	0	0	3	0	0	2	15
0	0	4	0	0	4	0	0	0	4	0	0	3	9
0	0	5	0	0	5	0	0	0	5	0	0	4	4
0	0	6	0	0	6	0	0	0	6	0	0	4	30
0	0	7	0	0	7	0	0	0	7	0	0	5	24
0	0	8	0	0	8	0	0	0	8	0	0	6	18
0	0	9	0	0	9	0	0	0	9	0	0	7	13
0	0	10	0	0	10	0	0	0	10	0	0	8	8
0	0	20	0	0	20	0	0	0	20	0	0	16	16
0	1	0	0	0	30	0	0	0	30	0	0	24	24
0	2	0	0	1	20	0	0	1	0	0	0	33	2
0	3	0	0	2	10	0	0	2	0	0	1	26	4
1	0	0	0	3	0	0	0	3	0	0	2	19	5
2	0	0	1	2	0	0	1	0	0	0	3	12	7
3	0	0	2	1	0	0	2	0	0	1	2	24	14
4	0	0	3	0	0	0	3	0	0	2	1	36	21
5	0	0	3	3	0	0	4	0	0	3	1	8	28
6	0	0	4	2	0	0	5	0	0	4	0	21	5
7	0	0	5	1	0	0	6	0	0	4	3	33	12
8	0	0	6	0	0	0	7	0	0	5	3	5	19
9	0	0	6	3	0	0	8	0	0	6	2	17	26
10	0	0	7	2	0	0	9	0	0	7	1	30	3
20	0	0	15	0	0	0	10	0	0	8	1	2	10
30	0	0	22	2	0	0	20	0	0	16	2	4	19
40	0	0	30	0	0	0	30	0	0	24	3	6	29
50	0	0	37	2	0	0	40	0	0	33	0	9	8
60	0	0	45	0	0	0	50	0	0	41	1	11	17
70	0	0	52	2	0	0	60	0	0	49	2	13	27
80	0	0	60	0	0	0	70	0	0	57	3	16	7
90	0	0	67	2	0	0	80	0	0	66	0	18	16
100	0	0	75	0	0	0	90	0	0	74	1	20	26
200	0	0	150	0	0	0	100	0	0	82	2	23	5
300	0	0	225	0	0	0	200	0	0	165	1	6	10
400	0	0	300	0	0	0	300	0	0	247	3	29	14
500	0	0	375	0	0	0	400	0	0	330	2	12	18
1000	0	0	750	0	0	0	500	0	0	413	0	35	23
2000	0	0	1500	0	0	0	1000	0	0	826	1	31	16

Digitized by Google

TABLES for converting Provincial into Statute Measure.

Dorsetshire.			Statute.				Cornish.			Statute.			
A.	R.	P.	A.	R.	P.	YD.	A.	R.	P.	A.	R.	P.	YD.
0	0	1	0	0	0	25	0	0	1	0	0	1	6
0	0	2	0	0	1	20	0	0	2	0	0	2	12
0	0	3	0	0	2	15	0	0	3	0	0	3	17
0	0	4	0	0	3	10	0	0	4	0	0	4	23
0	0	5	0	0	4	5	0	0	5	0	0	5	29
0	0	6	0	0	4	30	0	0	6	0	0	7	4
0	0	7	0	0	5	25	0	0	7	0	0	8	10
0	0	8	0	0	6	20	0	0	8	0	0	9	16
0	0	9	0	0	7	15	0	0	9	0	0	10	22
0	0	10	0	0	8	11	0	0	10	0	0	11	27
0	0	20	0	0	16	22	0	0	20	0	0	22	24
0	0	30	0	0	25	2	0	0	30	0	0	35	21
0	1	0	0	0	33	13	0	1	0	0	1	7	18
0	2	0	0	1	26	26	0	2	0	0	2	15	6
0	3	0	0	2	20	8	0	3	0	0	3	22	25
1	0	0	0	3	13	21	1	0	0	1	0	30	12
2	0	0	1	2	27	12	2	0	0	2	1	20	25
3	0	0	2	2	1	3	3	0	0	3	2	11	7
4	0	0	3	1	14	25	4	0	0	4	3	1	20
5	0	0	4	0	23	16	5	0	0	5	3	32	2
6	0	0	5	0	2	6	6	0	0	7	0	22	14
7	0	0	5	3	15	28	7	0	0	8	1	12	26
8	0	0	6	2	24	19	8	0	0	9	2	3	9
9	0	0	7	2	3	10	9	0	0	10	2	33	21
10	0	0	8	1	17	1	10	0	0	11	3	24	4
20	0	0	16	2	34	27	20	0	0	23	3	8	8
30	0	0	25	0	11	4	30	0	0	35	2	32	12
40	0	0	33	1	28	5	40	0	0	47	2	16	15
50	0	0	41	3	5	7	50	0	0	59	2	0	19
60	0	0	50	0	22	8	60	0	0	71	1	24	23
70	0	0	58	1	39	9	70	0	0	83	1	8	27
80	0	0	66	3	16	10	80	0	0	95	0	33	0
90	0	0	75	0	33	12	90	0	0	107	0	17	4
100	0	0	83	2	10	14	100	0	0	119	0	1	8
200	0	0	167	0	20	27	200	0	0	238	0	2	17
300	0	0	250	2	31	10	300	0	0	357	0	3	25
400	0	0	334	1	1	24	400	0	0	476	0	5	4
500	0	0	417	3	12	7	500	0	0	595	0	6	12
1000	0	0	835	2	24	14	1000	0	0	1190	0	12	24

Digitized by Google

TABLES for converting Provincial into Statute Measure.

Irish.			Statute.				Cheshire.			Statute.			
A.	R.	P.	A.	R.	P.	YD.	A.	R.	P.	A.	R.	P.	YD.
0	0	1	0	0	1	19	0	0	1	0	0	2	4
0	0	2	0	0	3	7	0	0	2	0	0	4	7
0	0	3	0	0	4	26	0	0	3	0	0	6	11
0	0	4	0	0	6	15	0	0	4	0	0	8	14
0	0	5	0	0	8	3	0	0	5	0	0	10	18
0	0	6	0	0	9	22	0	0	6	0	0	12	21
0	0	7	0	0	11	10	0	0	7	0	0	14	25
0	0	8	0	0	12	29	0	0	8	0	0	16	28
0	0	9	0	0	14	17	0	0	9	0	0	19	1
0	0	10	0	0	16	6	0	0	10	0	0	21	5
0	0	20	0	0	32	12	0	0	20	0	1	2	10
0	0	30	0	1	8	18	0	0	30	0	1	23	14
0	1	0	0	1	24	24	0	1	0	0	2	4	19
0	2	0	0	3	9	18	0	2	0	1	0	9	8
0	3	0	1	0	34	12	0	3	0	1	2	13	27
1	0	0	1	2	19	5	1	0	0	2	0	18	16
2	0	0	3	0	38	11	2	0	0	4	0	37	1
3	0	0	4	3	17	16	3	0	0	6	1	15	16
4	0	0	6	1	36	21	4	0	0	8	1	34	2
5	0	0	8	0	15	26	5	0	0	10	2	12	17
6	0	0	9	2	35	1	6	0	0	12	2	31	2
7	0	0	11	1	14	7	7	0	0	14	3	9	18
8	0	0	12	3	33	12	8	0	0	16	3	28	3
9	0	0	14	2	12	17	9	0	0	19	0	6	19
10	0	0	16	0	31	22	10	0	0	21	0	25	4
20	0	0	32	1	23	14	20	0	0	42	1	10	7
30	0	0	48	2	15	6	30	0	0	63	1	35	11
40	0	0	64	3	6	29	40	0	0	84	2	20	15
50	0	0	80	3	38	20	50	0	0	105	3	5	18
60	0	0	97	0	30	12	60	0	0	126	3	30	22
70	0	0	113	1	22	5	70	0	0	148	0	15	25
80	0	0	129	2	13	26	80	0	0	169	1	0	29
90	0	0	145	3	5	18	90	0	0	190	1	26	2
100	0	0	161	3	37	9	100	0	0	211	2	11	6
200	0	0	323	3	34	19	200	0	0	423	0	22	12
300	0	0	485	3	11	28	300	0	0	634	2	33	18
400	0	0	647	3	29	7	400	0	0	846	1	4	24
500	0	0	809	3	26	16	500	0	0	1057	3	16	0
1000	0	0	1619	3	13	2	1000	0	0	2115	2	32	0

Digitized by Google

TABLE for converting Statute into Scotch Measure, and vice versâ.

The Scotch perch is called a "Fall," and contains 36 square "Ells."

Statute.			Scotch.				Scotch.			Statute.			
A.	R.	P.	A.	R.	F.	E.	A.	R.	F.	A.	R.	P.	YD.
0	0	1	0	0	0	29	0	0	1	0	0	1	8
0	0	2	0	0	1	21	0	0	2	0	0	2	16
0	0	3	0	0	2	14	0	0	3	0	0	3	23
0	0	4	0	0	3	6	0	0	4	0	0	5	1
0	0	5	0	0	3	35	0	0	5	0	0	6	9
0	0	6	0	0	4	28	0	0	6	0	0	7	17
0	0	7	0	0	5	20	0	0	7	0	0	8	25
0	0	8	0	0	6	12	0	0	8	0	0	10	2
0	0	9	0	0	7	4	0	0	9	0	0	11	10
0	0	10	0	0	7	33	0	0	10	0	0	12	18
0	0	20	0	0	15	31	0	0	20	0	0	25	6
0	0	30	0	0	23	29	0	0	30	0	0	37	24
0	1	0	0	0	31	26	0	1	0	0	1	10	13
0	2	0	0	1	23	16	0	2	0	0	2	20	27
0	3	0	0	2	15	6	0	3	0	0	3	31	10
1	0	0	0	3	6	32	1	0	0	1	1	1	23
2	0	0	1	2	13	27	2	0	0	2	2	3	16
3	0	0	2	1	20	23	3	0	0	3	3	5	8
4	0	0	3	0	27	19	4	0	0	5	0	7	1
5	0	0	3	3	34	14	5	0	0	6	1	8	24
6	0	0	4	3	1	9	6	0	0	7	2	10	16
7	0	0	5	2	8	5	7	0	0	8	3	12	9
8	0	0	6	1	15	1	8	0	0	10	0	14	2
9	0	0	7	0	21	33	9	0	0	11	1	15	25
10	0	0	7	3	28	29	10	0	0	12	2	17	18
20	0	0	15	3	17	22	20	0	0	25	0	35	6
30	0	0	23	3	6	15	30	0	0	37	3	12	24
40	0	0	31	2	35	8	40	0	0	50	1	30	12
50	0	0	39	2	24	0	50	0	0	63	0	8	0
60	0	0	47	2	12	29	60	0	0	75	2	25	18
70	0	0	55	2	1	22	70	0	0	88	1	3	6
80	0	0	63	1	30	15	80	0	0	100	3	20	24
90	0	0	71	1	19	8	90	0	0	113	1	38	12
100	0	0	79	1	8	0	100	0	0	126	0	16	0
200	0	0	158	2	16	0	200	0	0	252	0	32	0
300	0	0	237	3	24	0	300	0	0	378	1	8	0
400	0	0	317	0	32	0	400	0	0	504	1	24	0
500	0	0	396	2	0	0	500	0	0	630	2	0	0
1000	0	0	793	0	0	0	1000	0	0	1261	0	0	0

Digitized by Google

TABLE CONVERTING YARDS INTO LINKS.

Yards.	Links.	Inches.	Yards.	Links.	Inches.	Yards.	Links.	Inches.	Yards.	Links.	Inches.	Yards.	Links.	Inches.	Yards.	Links.	Inches.
1	4	4¼	22	100	0	43	195	4	64	290	7½	85	386	3	106	481	6½
2	9	1	23	104	4¼	44	200	0	65	295	4	86	390	7½	107	486	3
3	13	5	24	109	1	45	204	4¼	66	300	0	87	395	4	108	490	7½
4	18	1	25	113	5	46	209	1	67	304	4¼	88	400	0	109	495	4
5	22	5½	26	118	1	47	213	5	68	309	1	89	404	4¼	110	500	0
6	27	2¼	27	122	5½	48	218	1	69	313	5	90	409	1	220	1000	0
7	31	6½	28	127	2¼	49	222	5½	70	318	1	91	413	5	330	1500	0
8	36	3	29	131	6½	50	227	2¼	71	322	5½	92	418	1	440	2000	0
9	40	7½	30	136	3	51	231	6½	72	327	2¼	93	422	5½	550	2500	0
10	45	4	31	140	7½	52	236	3	73	331	6½	94	427	2¼	660	3000	0
11	50	0	32	145	4	53	240	7½	74	336	3	95	431	6½	770	3500	0
12	54	4¼	33	150	0	54	245	4	75	340	7½	96	436	3	880	4000	0
13	59	1	34	154	4¼	55	250	0	76	345	4	97	440	7½	990	4500	0
14	63	5	35	159	1	56	254	4¼	77	350	0	98	445	4	1100	5000	0
15	68	1	36	163	5	57	259	1	78	354	4¼	99	450	0	1210	5500	0
16	72	5½	37	168	1	58	263	5	79	359	1	100	454	4¼	1320	6000	0
17	77	2¼	38	172	5½	59	268	1	80	363	5	101	459	1	1440	6500	0
18	81	6½	39	177	2¼	60	272	5½	81	368	1	102	463	5	1550	7000	0
19	86	3	40	181	6½	61	277	2¼	82	372	5½	103	468	1	1660	7500	0
20	90	7½	41	186	3	62	281	6½	83	377	2¼	104	472	5½	1770	8000	0
21	95	4	42	190	7½	63	286	3	84	381	6½	105	477	2¼			

Land is measured with a chain, called Gunter's Chain, of 4 poles or 22 yards in length, which consists of 100 equal links, each link being $\frac{22}{100}$ of a yard long, or $\frac{66}{100}$ of a foot, or 7·92 inches; 10 square chains or 10 chains in length and 1 in breadth, make an acre; or 4840 square yards, 160 square poles, or 100,000 square links make an acre. The Irish or plantation acre is the only measure now recognized in addition to the statute acre, the other provincial acres falling fast into disuse.

Digitized by Google

SUPERFICIAL, OR SQUARE MEASURE.

A Surface is called a Square when it has four equal sides and four equal angles. A Square Inch, therefore, is a surface one inch long and one inch wide; a Square Foot, a surface one foot long and one foot wide, &c.

Sq. In.	Sq. Feet.	Sq. Yds.	Sq. Perches.	Sq. Roods.	Sq. Acres.	
144						make 1 square foot.
1,296 or	9					„ 1 square yard.
39,204 „	272¼ or	30¼				„ 1 square English perch.
63,504 „	441 „	49				„ 1 square Irish perch.
1,568,160 „	10,890 „	1,210 or	40			„ 1 square English rood.
2,540,160 „	17,640 „	1,960 „	40			„ 1 square Irish rood.
6,272,640 „	43,560 „	4,840 „	160 or	4		„ 1 statute acre.
10,160,640 „	70,560 „	7,840 „	160 „	4		„ 1 plantation acre.
4,014,489,600 „	27,878,400 „	3,097,600 „	102,400 „	2,560 or	640	„ 1 square English mile.
6,502,809,600 „	45,158,400 „	5,017,600 „	102,400 „	2560 „	640	„ 1 square Irish mile.

Digitized by Google

LINEAL, OR LONG MEASURE.

Lines.	Inches.	Feet.	Yards.	Perches.	Furlongs.		
12						make	1 inch.
144 or	12					„	1 foot.
432 „	36 or	3				„	1 yard.
2,376 „	198 „	16½ or	5½			„	1 English perch.
3,024 „	252 „	21 „	7			„	1 Irish perch.
95,040 „	7,920 „	660 „	220 or	40		„	1 English furlong.
120,960 „	10,080 „	840 „	280 „	40		„	1 Irish furlong.
760,320 „	63,360 „	5,280 „	1,760 „	320 or	8	„	1 English mile.
967,680 „	80,640 „	6,720 „	2,240 „	320 „	8	„	1 Irish mile.

Three miles make one league; sixty-nine and one-fifteenth English miles make sixty nautical or geographical miles, which are equal to one degree, or the three hundred and sixtieth part of the circumference of the globe, as measured on the Equator.

Digitized by Google

TABLE OF SQUARES AND ROOTS, 1 TO 100.

No.	Square.	Square Root.	No.	Square.	Square Root.	No.	Square.	Square Root.	No.	Square.	Square Root.
1	1	1·0000000	26	676	5·0990195	51	2601	7·1414284	76	5776	8·7177979
2	4	1·4142136	27	729	5·1961524	52	2704	7·2111026	77	5929	8·7749644
3	9	1·7320508	28	784	5·2915026	53	2809	7·2801099	78	6084	8·8317609
4	16	2·0000000	29	841	5·3851648	54	2916	7·3484692	79	6241	8·8881944
5	25	2·2360680	30	900	5·4772256	55	3025	7·4161985	80	6400	8·9442719
6	36	2·4494897	31	961	5·5677644	56	3136	7·4833148	81	6561	9·0000000
7	49	2·6457513	32	1024	5·6568542	57	3249	7·5498344	82	6724	9·0553851
8	64	2·8284271	33	1089	5·7445626	58	3364	7·6157731	83	6889	9·1104336
9	81	3·0000000	34	1156	5·8309519	59	3481	7·6811457	84	7056	9·1651514
10	100	3·1622777	35	1225	5·9160798	60	3600	7·7459667	85	7225	9·2195445
11	121	3·3166248	36	1296	6·0000000	61	3721	7·8102497	86	7396	9·2736185
12	144	3·4641016	37	1369	6·0827625	62	3844	7·8740079	87	7569	9·3273791
13	169	3·6055513	38	1444	6·1644140	63	3969	7·9372539	88	7744	9·3808315
14	196	3·7416574	39	1521	6·2449980	64	4096	8·0000000	89	7921	9·4339811
15	225	3·8729833	40	1600	6·3245553	65	4225	8·0622577	90	8100	9·4868330
16	256	4·0000000	41	1681	6·4031242	66	4356	8·1240384	91	8281	9·5393920
17	289	4·1231056	42	1764	6·4807407	67	4489	8·1853528	92	8464	9·5916630
18	324	4·2426407	43	1849	6·5574385	68	4624	8·2462113	93	8649	0·6436508
19	361	4·3588989	44	1936	6·6332496	69	4761	8·3066239	94	8836	9·6953597
20	400	4·4721360	45	2025	6·7082039	70	4900	8·3666003	95	9025	9·7467943
21	441	4·5825757	46	2116	6·7823300	71	5041	8·4261498	96	9216	9·7979590
22	484	4·6904158	47	2209	6·8556546	72	5184	8·4852814	97	9409	9·8488578
23	529	4·7958315	48	2304	6·9282032	73	5329	8·5440037	98	9604	9·8994949
24	576	4·8989795	49	2401	7·0000000	74	5476	8·6023253	99	9801	9·9498744
25	625	5·0000000	50	2500	7·0710678	75	5625	8·6602540	100	10000	10·0000000

Digitized by Google

Weale's Rudimentary Series.

PHILADELPHIA, 1876.

THE PRIZE MEDAL

Was awarded to the Publishers for

Books: Rudimentary, Scientific,

"WEALE'S SERIES," ETC.

A NEW LIST OF

WEALE'S SERIES

RUDIMENTARY SCIENTIFIC, EDUCATIONAL, AND CLASSICAL.

Comprising nearly Three Hundred and Fifty distinct works in almost every department of Science, Art, and Education, recommended to the notice of Engineers, Architects, Builders, Artisans, and Students generally, as well as to those interested in Workmen's Libraries, Literary and Scientific Institutions, Colleges, Schools, Science Classes, &c., &c.

☞ "WEALE'S SERIES includes Text-Books on almost every branch of Science and Industry, comprising such subjects as Agriculture, Architecture and Building, Civil Engineering, Fine Arts, Mechanics and Mechanical Engineering, Physical and Chemical Science, and many miscellaneous Treatises. The whole are constantly undergoing revision, and new editions, brought up to the latest discoveries in scientific research, are constantly issued. The prices at which they are sold are as low as their excellence is assured."—*American Literary Gazette.*

"Amongst the literature of technical education, WEALE'S SERIES has ever enjoyed a high reputation, and the additions being made by Messrs. CROSBY LOCKWOOD & Co. render the series even more complete, and bring the information upon the several subjects down to the present time."—*Mining Journal.*

"It is impossible to do otherwise than bear testimony to the value of WEALE'S SERIES."—*Engineer.*

"Everybody—even that outrageous nuisance 'Every Schoolboy'—knows the merits of 'WEALE'S RUDIMENTARY SERIES.' Any persons wishing to acquire knowledge cannot do better than look through Weale's Series and get all the books they require. The Series is indeed an inexhaustible mine of literary wealth."—*The Metropolitan.*

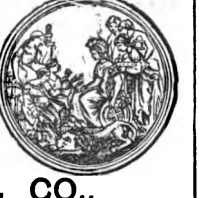
"WEALE'S SERIES has become a standard as well as an unrivalled collection of treatises in all branches of art and science."—*Public Opinion.*

LONDON, 1862.

THE PRIZE MEDAL

Was awarded to the Publishers of

"WEALE'S SERIES."



CROSBY LOCKWOOD & CO.,

7, STATIONERS' HALL COURT, LUDGATE HILL, LONDON, E.C.

Digitized by Google

WEALE'S RUDIMENTARY SCIENTIFIC SERIES.

*** The volumes of this Series are freely Illustrated with Woodcuts, or otherwise, where requisite. Throughout the following List it must be understood that the books are bound in limp cloth, unless otherwise stated; *but the volumes marked with a ‡ may also be had strongly bound in cloth boards for 6d. extra.*

N.B.—In ordering from this List it is recommended, as a means of facilitating business and obviating error, to quote the numbers affixed to the volumes, as well as the titles and prices.

ARCHITECTURE, BUILDING, ETC.

No.

16. *ARCHITECTURE—ORDERS*—The Orders and their Æsthetic Principles. By W. H. Leeds. Illustrated. 1s. 6d.

17. *ARCHITECTURE—STYLES*—The History and Description of the Styles of Architecture of Various Countries, from the Earliest to the Present Period. By T. Talbot Bury, F.R.I.B.A., &c. Illustrated. 2s.
*** Orders and Styles of Architecture, *in One Vol.*, 3s. 6d.

18. *ARCHITECTURE—DESIGN*—The Principles of Design in Architecture, as deducible from Nature and exemplified in the Works of the Greek and Gothic Architects. By E. L. Garbett, Architect. Illustrated. 2s.6d.

*** *The three preceding Works, in One handsome Vol., half bound, entitled* "Modern Architecture," *price* 6s.

22. *THE ART OF BUILDING*, Rudiments of. General Principles of Construction, Materials used in Building, Strength and Use of Materials, Working Drawings, Specifications, and Estimates. By E. Dobson, 2s.‡

23. *BRICKS AND TILES*, Rudimentary Treatise on the Manufacture of; containing an Outline of the Principles of Brickmaking. By Edw. Dobson, M.R.I.B.A. With Additions by C. Tomlinson, F.R.S. Illustrated, 3s.‡

25. *MASONRY AND STONECUTTING;* in which the Principles of Masonic Projection and their application to the Construction of Curved Wing-Walls, Domes, Oblique Bridges, and Roman and Gothic Vaulting, are explained. By Edward Dobson, M.R.I.B.A., &c. 2s. 6d.‡

44. *FOUNDATIONS AND CONCRETE WORKS*, a Rudimentary Treatise on; containing a Synopsis of the principal cases of Foundation Works, with the usual Modes of Treatment, and Practical Remarks on Footings, Planking, Sand, Concrete, Béton, Pile-driving, Caissons, and Cofferdams. By E. Dobson, M.R.I.B.A., &c. Fifth Edition, revised. 1s. 6d.

42. *COTTAGE BUILDING.* By C. Bruce Allen, Architect. Ninth Edition, revised and enlarged. Numerous Illustrations. 1s. 6d.

45. *LIMES, CEMENTS, MORTARS, CONCRETES, MASTICS,* PLASTERING, &c. By G. R. Burnell, C.E. Twelfth Edition. 1s. 6d.

57. *WARMING AND VENTILATION*, a Rudimentary Treatise on; being a concise Exposition of the General Principles of the Art of Warming and Ventilating Domestic and Public Buildings, Mines, Lighthouses, Ships, &c. By Charles Tomlinson, F.R.S., &c. Illustrated. 3s.

83**. *CONSTRUCTION OF DOOR LOCKS.* Compiled from the Papers of A. C. Hobbs, Esq., of New York, and Edited by Charles Tomlinson, F.R.S. To which is added, a Description of Fenby's Patent Locks, and a Note upon Iron Safes by Robert Mallet, M.I.C.E. Illus. 2s. 6d.

111. *ARCHES, PIERS, BUTTRESSES, &c.:* Experimental Essays on the Principles of Construction in; made with a view to their being useful to the Practical Builder. By William Bland. Illustrated. 1s. 6d.

116. *THE ACOUSTICS OF PUBLIC BUILDINGS;* or, The Principles of the Science of Sound applied to the purposes of the Architect and Builder. By T. Roger Smith, M.R.I.B.A., Architect. Illustrated. 1s. 6d.

☞ *The ‡ indicates that these vols. may be had strongly bound at 6d. extra.*

Digitized by Google

Architecture, Building, etc., *continued.*

127. *ARCHITECTURAL MODELLING IN PAPER*, the Art of. By T. A. RICHARDSON, Architect. Illustrated. 1s. 6d.

128. *VITRUVIUS—THE ARCHITECTURE OF MARCUS VITRUVIUS POLLO.* In Ten Books. Translated from the Latin by JOSEPH GWILT, F.S.A., F.R.A.S. With 23 Plates. 5s.

130. *GRECIAN ARCHITECTURE*, An Inquiry into the Principles of Beauty in; with an Historical View of the Rise and Progress of the Art in Greece. By the EARL OF ABERDEEN. 1s.

*** *The two preceding Works in One handsome Vol., half bound, entitled* "ANCIENT ARCHITECTURE," *price* 6s.

132. *DWELLING-HOUSES*, a Rudimentary Treatise on the Erection of. Illustrated by a Perspective View, Plans, Elevations, and Sections of a pair of Semi-detached Villas, with the Specification, Quantities, and Estimates, and every requisite detail, in sequence, for their Construction and Finishing. By S. H. BROOKS, Architect. New Edition, with Plates. 2s. 6d.‡

156. *QUANTITIES AND MEASUREMENTS*, How to Calculate and Take them in Bricklayers', Masons', Plasterers', Plumbers', Painters', Paperhangers', Gilders', Smiths', Carpenters', and Joiners' Work. By A. C. BEATON, Architect and Surveyor. New and Enlarged Edition. Illus. 1s. 6d.

175. *LOCKWOOD & CO.'S BUILDER'S AND CONTRACTOR'S* PRICE BOOK, for 1883, containing the latest Prices of all kinds of Builders' Materials and Labour, and of all Trades connected with Building, &c., &c. Edited by F. T. W. MILLER, Architect. 3s. 6d.; half bound, 4s.

182. *CARPENTRY AND JOINERY*—THE ELEMENTARY PRINCIPLES OF CARPENTRY. Chiefly composed from the Standard Work of THOMAS TREDGOLD, C.E. With Additions from the Works of the most Recent Authorities, and a TREATISE ON JOINERY by E. WYNDHAM TARN, M.A. Numerous Illustrations. 3s. 6d.‡

182*. *CARPENTRY AND JOINERY. ATLAS* of 35 Plates to accompany the above. With Descriptive Letterpress. 4to. 6s.; cloth, 7s. 6d.

187. *HINTS TO YOUNG ARCHITECTS.* By GEORGE WIGHTWICK. New, Revised, and enlarged Edition. By G. HUSKISSON GUILLAUME, Architect. With numerous Woodcuts. 3s. 6d.‡

188. *HOUSE PAINTING, GRAINING, MARBLING, AND SIGN WRITING;* A Practical Manual of, containing full information on the Processes of House-Painting, the Formation of Letters and Practice of Sign-Writing, the Principles of Decorative Art, a Course of Elementary Drawing for House-Painters, Writers, &c., &c. With 9 Coloured Plates of Woods and Marbles, and nearly 150 Wood Engravings. By ELLIS A. DAVIDSON. Third Edition, revised. 5s. cloth limp; 6s. cloth boards.

189. *THE RUDIMENTS OF PRACTICAL BRICKLAYING.* In Six Sections: General Principles; Arch Drawing, Cutting, and Setting; Pointing; Paving, Tiling, Materials; Slating and Plastering; Practical Geometry, Mensuration, &c. By ADAM HAMMOND. Illustrated. 1s. 6d.

191. *PLUMBING.* A Text-Book to the Practice of the Art or Craft of the Plumber. With Chapters upon House Drainage, embodying the latest Improvements. Fourth Edition, revised and enlarged. With above 330 Illustrations. By W. P. BUCHAN, Sanitary Engineer. 3s. 6d.‡

192. *THE TIMBER IMPORTER'S, TIMBER MERCHANT'S,* and BUILDER'S STANDARD GUIDE. By RICHARD E. GRANDY. Second Edition, Revised. 3s.‡

205. *THE ART OF LETTER PAINTING MADE EASY.* By J. G. BADENOCH. Illustrated with 12 full-page Engravings of Examples. 1s.

206. *A BOOK ON BUILDING, Civil and Ecclesiastical,* including CHURCH RESTORATION. With the Theory of Domes and the Great Pyramid, &c. By Sir EDMUND BECKETT, Bart., LL.D., Q.C., F.R.A.S. 4s. 6d.‡

226. *THE JOINTS MADE AND USED BY BUILDERS* in the Construction of various kinds of Engineering and Architectural Works (A Practical Treatise on). With especial reference to those wrought by Artificers in Erecting and Finishing Habitable Structures. By WYVILL J. CHRISTY, Architect. With upwards of 160 Engravings on Wood. 3s.‡

☞ *The ‡ indicates that these vols. may be had strongly bound at 6d. extra.*

Digitized by Google

Architecture, Building, etc., *continued.*

228. *THE CONSTRUCTION OF ROOFS OF WOOD AND IRON* (An Elementary Treatise on). Deduced chiefly from the Works of Robison, Tredgold, and Humber. By E. WYNDHAM TARN, M.A., Architect. 1s. 6d.

229. *ELEMENTARY DECORATION:* A Guide to the Simpler Forms of Everyday Art, as applied to the Interior and Exterior Decoration of Dwelling-Houses, &c. By JAMES W. FACEY, Jun. Illustrated with Sixty-eight explanatory Engravings. 2s.

230. *HANDRAILING* (A Practical Treatise on). Showing New and Simple Methods for finding the Pitch of the Plank, Drawing the Moulds, Bevelling, Jointing-up, and Squaring the Wreath. By GEORGE COLLINGS. Illustrated with Plates and Diagrams. 1s. 6d.

BUILDING ESTATES: a Treatise on the Development, Sale, Purchase, and General Management of Building Land. With Particulars of the Formation of Streets and Sewers, and the Requirements of Sanitary Authorities. By F. MAITLAND. [*In the press.*

CIVIL ENGINEERING, ETC.

219. *CIVIL ENGINEERING.* By HENRY LAW, M.Inst. C.E. Including a Treatise on HYDRAULIC ENGINEERING by GEO. R. BURNELL, M.Inst.C.E. Sixth Edition, revised, WITH LARGE ADDITIONS ON RECENT PRACTICE IN CIVIL ENGINEERING, by D. KINNEAR CLARK, M.Inst. C.E., Author of "Tramways: Their Construction," &c. 6s. 6d., Cloth boards, 7s. 6d.

31. *WELLS AND WELL-SINKING.* By JOHN GEO. SWINDELL, A.R.I.B.A., and G. R. BURNELL, C.E. Revised Edition. With a New Appendix on the Qualities of Water. Illustrated. 2s. [*Just published.*

35. *THE BLASTING AND QUARRYING OF STONE,* for Building and other Purposes. With Remarks on the Blowing up of Bridges. By Gen. Sir JOHN BURGOYNE, Bart., K.C.B. Illustrated. 1s. 6d.

62. *RAILWAY CONSTRUCTION,* Elementary and Practical Instructions on the Science of. By Sir M. STEPHENSON, C.E. New Edition, by EDWARD NUGENT, C.E. With Statistics of the Capital, Dividends, and Working of Railways in the United Kingdom. By E. D. CHATTAWAY. 4s.

80*. *EMBANKING LANDS FROM THE SEA,* the Practice of. Treated as a Means of Profitable Employment for Capital. With Examples and Particulars of actual Embankments, &c. By J. WIGGINS, F.G.S. 2s.

81. *WATER WORKS,* for the Supply of Cities and Towns. With a Description of the Principal Geological Formations of England as influencing Supplies of Water; and Details of Engines and Pumping Machinery for raising Water. By SAMUEL HUGHES, F.G.S., C.E. New Edition. 4s.‡

117. *SUBTERRANEOUS SURVEYING,* an Elementary and Practical Treatise on. By THOMAS FENWICK. Also the Method of Conducting Subterraneous Surveys without the Use of the Magnetic Needle, and other Modern Improvements. By THOMAS BAKER, C.E. Illustrated. 2s. 6d.‡

118. *CIVIL ENGINEERING IN NORTH AMERICA,* a Sketch of. By DAVID STEVENSON, F.R.S.E., &c. Plates and Diagrams. 3s.

197. *ROADS AND STREETS* (*THE CONSTRUCTION OF*), in two Parts: I. THE ART OF CONSTRUCTING COMMON ROADS, by HENRY LAW, C.E., revised by D. K. CLARK, C.E.; II. RECENT PRACTICE, including pavements of Stone, Wood, and Asphalte, by D. K. CLARK. 4s. 6d.‡

203. *SANITARY WORK IN THE SMALLER TOWNS AND IN* VILLAGES. Comprising:—1. Some of the more Common Forms of Nuisance and their Remedies; 2. Drainage; 3. Water Supply. By CHARLES SLAGG, A.I.C.E. Second Edition, revised and enlarged. [*In the press.*

212. *THE CONSTRUCTION OF GAS-WORKS,* and the Manufacture and Distribution of Coal Gas. Originally written by SAMUEL HUGHES, C.E. Sixth Edition, re-written and much Enlarged by WILLIAM RICHARDS, C.E. With 72 Illustrations. 4s. 6d.‡

213. *PIONEER ENGINEERING.* A Treatise on the Engineering Operations connected with the Settlement of Waste Lands in New Countries. By EDWARD DOBSON, Assoc. Inst. C.E. 4s. 6d.‡

☞ *The ‡ indicates that these vols. may be had strongly bound at 6d. extra.*

Digitized by Google

MECHANICAL ENGINEERING, ETC.

33. *CRANES*, the Construction of, and other Machinery for Raising Heavy Bodies. By JOSEPH GLYNN, F.R.S. Illustrated. 1s. 6d.
34. *THE STEAM ENGINE*. By Dr. LARDNER. Illustrated. 1s. 6d.
59. *STEAM BOILERS:* their Construction and Management. By R. ARMSTRONG, C.E. Illustrated. 1s. 6d.
67. *CLOCKS, WATCHES, AND BELLS*, a Rudimentary Treatise on. By Sir EDMUND BECKETT, LL.D., Q.C. Seventh Edition, revised and enlarged. 4s. 6d. limp; 5s. 6d. cloth boards. [*Just published.*
82. *THE POWER OF WATER*, as applied to drive Flour Mills, and to give motion to Turbines, &c. By JOSEPH GLYNN, F.R.S. 2s.‡
98. *PRACTICAL MECHANISM*, the Elements of; and Machine Tools. By T. BAKER, C.E. With Additions by J. NASMYTH, C.E. 2s. 6d.‡
139. *THE STEAM ENGINE*, a Treatise on the Mathematical Theory of, with Rules and Examples for Practical Men. By T. BAKER, C.E. 1s. 6d.
162. *THE BRASS FOUNDER'S MANUAL;* Instructions for Modelling, Pattern-Making, Moulding, Turning, Filing, Burnishing, Bronzing, &c. With copious Receipts, &c. By WALTER GRAHAM. 2s.‡
164. *MODERN WORKSHOP PRACTICE*, as applied to Marine, Land, and Locomotive Engines, Floating Docks, Dredging Machines, Bridges, Cranes, Ship-building, &c., &c. By J. G. WINTON. Illustrated. 3s.‡
165. *IRON AND HEAT*, exhibiting the Principles concerned in the Construction of Iron Beams, Pillars, and Bridge Girders, and the Action of Heat in the Smelting Furnace. By J. ARMOUR, C.E. 2s. 6d.‡
166. *POWER IN MOTION:* Horse-Power, Toothed-Wheel Gearing, Long and Short Driving Bands, and Angular Forces. By J. ARMOUR, 2s. 6d.‡
167. *IRON BRIDGES, GIRDERS, ROOFS, AND OTHER* WORKS. By FRANCIS CAMPIN, C.E. 2s. 6d.‡
171. *THE WORKMAN'S MANUAL OF ENGINEERING* DRAWING. By JOHN MAXTON, Engineer. Fourth Edition. Illustrated with 7 Plates and nearly 350 Woodcuts. 3s. 6d.‡
190. *STEAM AND THE STEAM ENGINE*, Stationary and Portable. By JOHN SEWELL and D. K. CLARK, M.I.C.E. 3s. 6d.‡
200. *FUEL*, its Combustion and Economy. By C. W. WILLIAMS, With Recent Practice in the Combustion and Economy of Fuel—Coal, Coke, Wood, Peat, Petroleum, &c.—by D. K. CLARK, M.I.C.E. 3s. 6d.‡
202. *LOCOMOTIVE ENGINES.* By G. D. DEMPSEY, C.E.; with large additions by D. KINNEAR CLARK, M.I.C.E. 3s.‡
211. *THE BOILERMAKER'S ASSISTANT* in Drawing, Templating, and Calculating Boiler and Tank Work. By JOHN COURTNEY, Practical Boiler Maker. Edited by D. K. CLARK, C.E. 100 Illustrations. 2s.
216. *MATERIALS AND CONSTRUCTION;* A Theoretical and Practical Treatise on the Strains, Designing, and Erection of Works of Construction. By FRANCIS CAMPIN, C.E. 3s.‡
217. *SEWING MACHINERY:* Its Construction, History, &c., with full Technical Directions for Adjusting, &c. By J. W. URQUHART, C.E. 2s.‡
223. *MECHANICAL ENGINEERING.* Comprising Metallurgy, Moulding, Casting, Forging, Tools, Workshop Machinery, Manufacture of the Steam Engine, &c. By FRANCIS CAMPIN, C.E. 2s. 6d.‡
224. *COACH BUILDING*, A Practical Treatise, Historical and Descriptive. By J. W. BURGESS. 2s. 6d.‡
235. *PRACTICAL ORGAN BUILDING.* By W. E. DICKSON, M.A., Precentor of Ely Cathedral. Illustrated. 2s. 6d.‡
236. *DETAILS OF MACHINERY.* Comprising Instructions for the Execution of various Works in Iron in the Fitting-Shop, Foundry, and Boiler-Yard. By FRANCIS CAMPIN, C.E. 3s.‡ [*Just published.*
237. *THE SMITHY AND FORGE;* including the Farrier's Art and Coach Smithing. By W. J. E. CRANE. Illustrated. 2s. 6d.‡ [*Just published.*
238. *THE SHEET-METAL WORKER'S GUIDE;* a Practical Handbook for Tinsmiths, Coppersmiths, Zincworkers, &c. With 94 Diagrams and Working Patterns. By W. J. E. CRANE. 1s. 6d. [*Just published.*

☞ *The ‡ indicates that these vols. may be had strongly bound at 6d. extra.*

Digitized by Google

SHIPBUILDING, NAVIGATION, MARINE ENGINEERING, ETC.

51. *NAVAL ARCHITECTURE*, the Rudiments of; or an Exposition of the Elementary Principles of the Science, and their Practical Application to Naval Construction. Compiled for the Use of Beginners. By JAMES PEAKE, School of Naval Architecture, H.M. Dockyard, Portsmouth. Fourth Edition, corrected, with Plates and Diagrams. 3s. 6d.‡

53*. *SHIPS FOR OCEAN AND RIVER SERVICE*, Elementary and Practical Principles of the Construction of. By HAKON A. SOMMERFELDT, Surveyor of the Royal Norwegian Navy. With an Appendix. 1s. 6d.

53**. *AN ATLAS OF ENGRAVINGS* to Illustrate the above. Twelve large folding plates. Royal 4to, cloth. 7s. 6d.

54. *MASTING, MAST-MAKING, AND RIGGING OF SHIPS*, Rudimentary Treatise on. Also Tables of Spars, Rigging, Blocks; Chain, Wire, and Hemp Ropes, &c., relative to every class of vessels. With an Appendix of Dimensions of Masts and Yards of the Royal Navy. By ROBERT KIPPING, N.A. Fifteenth Edition. Illustrated. 2s.‡

54*. *IRON SHIP-BUILDING*. With Practical Examples and Details for the Use of Ship Owners and Ship Builders. By JOHN GRANTHAM, Consulting Engineer and Naval Architect. 5th Edition, with Additions. 4s.

54**. *AN ATLAS OF FORTY PLATES* to Illustrate the above. Fifth Edition. Including the latest Examples, such as H.M. Steam Frigates "Warrior," "Hercules," "Bellerophon;" H.M. Troop Ship "Serapis," Iron Floating Dock, &c., &c. 4to, boards. 38s.

55. *THE SAILOR'S SEA BOOK:* a Rudimentary Treatise on Navigation. Part I. How to Keep the Log and Work it off. Part II. On Finding the Latitude and Longitude. By JAMES GREENWOOD, B.A. To which are added, the Deviation and Error of the Compass; Great Circle Sailing; the International (Commercial) Code of Signals; the Rule of the Road at Sea; Rocket and Mortar Apparatus for Saving Life; the Law of Storms; and a Brief Dictionary of Sea Terms. With numerous Woodcuts and Coloured Plates of Flags. New, thoroughly revised and much enlarged edition. By W. H. ROSSER. 2s. 6d.‡

80. *MARINE ENGINES, AND STEAM VESSELS*, a Treatise on. Together with Practical Remarks on the Screw and Propelling Power, as used in the Royal and Merchant Navy. By ROBERT MURRAY, C.E. Eighth Edition, re-written by H. S. BARRON. [*In preparation.*

83*bis*. *THE FORMS OF SHIPS AND BOATS:* Hints, Experimentally Derived, on some of the Principles regulating Ship-building. By W. BLAND. Seventh Edition, revised, with numerous Illustrations and Models. 1s. 6d.

99. *NAVIGATION AND NAUTICAL ASTRONOMY*, in Theory and Practice. By Professor J. R. YOUNG. New Edition, including the requisite Elements from the Nautical Almanac for working the Problems. Illustrated. 2s. 6d. [*Just published.*

106. *SHIPS' ANCHORS*, a Treatise on. By G. COTSELL, N.A. 1s. 6d.

149. *SAILS AND SAIL-MAKING*, an Elementary Treatise on. With Draughting, and the Centre of Effort of the Sails. Also, Weights and Sizes of Ropes; Masting, Rigging, and Sails of Steam Vessels, &c., &c. Eleventh Edition, enlarged, with an Appendix. By ROBERT KIPPING, N.A., Sailmaker, Quayside, Newcastle. Illustrated. 2s. 6d.‡

155. *THE ENGINEER'S GUIDE TO THE ROYAL AND* MERCANTILE NAVIES. By a PRACTICAL ENGINEER. Revised by D. F. M'CARTHY, late of the Ordnance Survey Office, Southampton. 3s.

55 & 204. *PRACTICAL NAVIGATION*. Consisting of The Sailor's Sea-Book. By JAMES GREENWOOD and W. H. ROSSER. Together with the requisite Mathematical and Nautical Tables for the Working of the Problems. By HENRY LAW, C.E., and J. R. YOUNG, formerly Professor of Mathematics in Belfast College. Illustrated with numerous Wood Engravings and Coloured Plates. 7s. Strongly half-bound in leather.

☞ *The ‡ indicates that these vols. may be had strongly bound at 6d. extra.*

Digitized by Google

PHYSICAL SCIENCE, NATURAL PHILOSOPHY, ETC.

1. *CHEMISTRY*, for the Use of Beginners. By Professor GEORGE FOWNES, F.R.S. With an Appendix on the Application of Chemistry to Agriculture. 1s.

2. *NATURAL PHILOSOPHY*, Introduction to the Study of; for the Use of Beginners. By C. TOMLINSON, Lecturer on Natural Science in King's College School, London. Woodcuts. 1s. 6d.

4. *MINERALOGY*, Rudiments of; a concise View of the Properties of Minerals. By A. RAMSAY, Jun. Woodcuts and Steel Plates. 3s.‡

6. *MECHANICS*, Rudimentary Treatise on; being a concise Exposition of the General Principles of Mechanical Science, and their Applications. By CHARLES TOMLINSON. Illustrated. 1s. 6d.

7 *ELECTRICITY;* showing the General Principles of Electrical Science, and the purposes to which it has been applied. By Sir W. SNOW HARRIS, F.R.S., &c. With Additions by R. SABINE, C.E., F.S.A. 1s. 6d.

7*. *GALVANISM*, Rudimentary Treatise on, and the General Principles of Animal and Voltaic Electricity. By Sir W. SNOW HARRIS. New Edition, with considerable Additions by ROBERT SABINE, C.E., F.S A. 1s. 6d.

8. *MAGNETISM;* being a concise Exposition of the General Principles of Magnetical Science, and the Purposes to which it has been applied. By Sir W. SNOW HARRIS. New Edition, revised and enlarged by H. M. NOAD, Ph.D., Vice-President of the Chemical Society, Author of "A Manual of Electricity," &c., &c. With 165 Woodcuts. 3s. 6d.‡

11. *THE ELECTRIC TELEGRAPH;* its History and Progress; with Descriptions of some of the Apparatus. By R. SABINE, C.E., F.S.A. 3s.

18. *PNEUMATICS*, for the Use of Beginners. By CHARLES TOMLINSON. Illustrated. 1s. 6d.

72. *MANUAL OF THE MOLLUSCA;* a Treatise on Recent and Fossil Shells. By Dr. S. P. WOODWARD, A.L.S. Fourth Edition. With Appendix by RALPH TATE, A.L.S., F.G.S. With numerous Plates and 300 Woodcuts. 6s. 6d. Cloth boards, 7s. 6d.

79**. *PHOTOGRAPHY*, Popular Treatise on; with a Description of the Stereoscope, &c. Translated from the French of D. VAN MONCKHOVEN, by W. H. THORNTHWAITE, Ph.D. Woodcuts. 1s. 6d.

96. *ASTRONOMY.* By the late Rev. ROBERT MAIN, M.A., F.R.S., formerly Radcliffe Observer at Oxford. Third Edition, revised to the Present Time. By WILLIAM THYNNE LYNN, B.A., F.R.A.S. 2s.

97. *STATICS AND DYNAMICS*, the Principles and Practice of; embracing also a clear development of Hydrostatics, Hydrodynamics, and Central Forces. By T. BAKER, C.E. 1s. 6d.

138. *TELEGRAPH*, Handbook of the; a Manual of Telegraphy, Telegraph Clerks' Remembrancer, and Guide to Candidates for Employment in the Telegraph Service. By R. BOND. Fourth Edition, revised and enlarged: to which is appended, QUESTIONS on MAGNETISM, ELECTRICITY, and PRACTICAL TELEGRAPHY, for the Use of Students, by W. MCGREGOR, First Assistant Supnt., Indian Gov. Telegraphs. 3s.‡

173. *PHYSICAL GEOLOGY*, partly based on Major-General PORTLOCK's "Rudiments of Geology." By RALPH TATE, A.L.S., &c. Woodcuts. 2s.

174. *HISTORICAL GEOLOGY*, partly based on Major-General PORTLOCK's "Rudiments." By RALPH TATE, A.L.S., &c. Woodcuts. 2s. 6d.

173 & 174. *RUDIMENTARY TREATISE ON GEOLOGY*, Physical and Historical. Partly based on Major-General PORTLOCK's "Rudiments of Geology." By RALPH TATE, A.L.S., F.G.S., &c. In One Volume. 4s. 6d.‡

183 & 184. *ANIMAL PHYSICS*, Handbook of. By Dr. LARDNER, D.C.L., formerly Professor of Natural Philosophy and Astronomy in University College, Lond. With 520 Illustrations. In One Vol. 7s. 6d., cloth boards.

*** *Sold also in Two Parts, as follows:—*

183. ANIMAL PHYSICS. By Dr. LARDNER. Part I., Chapters I.—VII. 4s.
184. ANIMAL PHYSICS. By Dr. LARDNER. Part II., Chapters VIII.—XVIII. 3s.

☞ *The ‡ indicates that these vols. may be had strongly bound at 6d. extra.*

Digitized by Google

MINING, METALLURGY, ETC.

117. *SUBTERRANEOUS SURVEYING*, Elementary and Practical Treatise on, with and without the Magnetic Needle. By THOMAS FENWICK, Surveyor of Mines, and THOMAS BAKER, C.E. Illustrated. 2s. 6d.‡

133. *METALLURGY OF COPPER*; an Introduction to the Methods of Seeking, Mining, and Assaying Copper, and Manufacturing its Alloys. By ROBERT H. LAMBORN, Ph.D. Woodcuts. 2s. 6d.‡

134. *METALLURGY OF SILVER AND LEAD*. By Dr. R. H. LAMBORN. Woodcuts. 2s. 6d.‡

135. *ELECTRO-METALLURGY*; Practically Treated. By ALEXANDER WATT, F.R.S.S.A. 8th Edition, revised, with additional Matter and Illustrations, including the most recent Processes. 3s.‡ [*Just published.*

172. *MINING TOOLS*, Manual of. For the Use of Mine Managers, Agents, Students, &c. By WILLIAM MORGANS. 2s. 6d.‡

172*. *MINING TOOLS, ATLAS* of Engravings to Illustrate the above, containing 235 Illustrations, drawn to Scale. 4to. 4s. 6d.; cloth boards, 6s.

176. *METALLURGY OF IRON*. Containing History of Iron Manufacture. Methods of Assay, and Analyses of Iron Ores, Processes of Manufacture of Iron and Steel, &c. By H. BAUERMAN, F.G.S. 5th Edition, revised and enlarged. 5s.‡ [*Just published.*

180. *COAL AND COAL MINING*, A Rudimentary Treatise on. By WARINGTON W. SMYTH, M.A., F.R.S. Fifth Edition, revised and enlarged. With numerous Illustrations. 3s. 6d.‡

195. *THE MINERAL SURVEYOR AND VALUER'S COMPLETE GUIDE*, with new Traverse Tables, and Descriptions of Improved Instruments; also the Correct Principles of Laying out and Valuing Mineral Properties. By WILLIAM LINTERN, Mining and Civil Engineer. 3s. 6d.‡

214. *SLATE AND SLATE QUARRYING*, Scientific, Practical, and Commercial. By D. C. DAVIES, F.G.S., Mining Engineer, &c. 3s.‡

215. *THE GOLDSMITH'S HANDBOOK*, containing full Instructions for the Alloying and Working of Gold. By GEORGE E. GEE, Goldsmith and Silversmith. Second Edition, considerably enlarged. 3s.‡

225. *THE SILVERSMITH'S HANDBOOK*, containing full Instructions for the Alloying and Working of Silver. By GEORGE E. GEE. 3s.‡

220. *MAGNETIC SURVEYING, AND ANGULAR SURVEYING*, with Records of the Peculiarities of Needle Disturbances. Compiled from the Results of carefully made Experiments. By W. LINTERN. 2s.

FINE ARTS.

20. *PERSPECTIVE FOR BEGINNERS*. Adapted to Young Students and Amateurs in Architecture, Painting, &c. By GEORGE PYNE. 2s.

40 & 41. *GLASS STAINING, AND THE ART OF PAINTING ON GLASS*. From the German of Dr. GESSERT and EMANUEL OTTO FROMBERG. With an Appendix on THE ART OF ENAMELLING. 2s. 6d.

69. *MUSIC*, A Rudimentary and Practical Treatise on. With numerous Examples. By CHARLES CHILD SPENCER. 2s. 6d.

71. *PIANOFORTE*, The Art of Playing the. With numerous Exercises & Lessons from the Best Masters. By CHARLES CHILD SPENCER. 1s. 6d.

69-71. *MUSIC & THE PIANOFORTE*. In one vol. Half bound, 5s.

181. *PAINTING POPULARLY EXPLAINED*, including Fresco, Oil, Mosaic, Water Colour, Water-Glass, Tempera, Encaustic, Miniature, Painting on Ivory, Vellum, Pottery, Enamel, Glass, &c. With Historical Sketches of the Progress of the Art by THOMAS JOHN GULLICK, assisted by JOHN TIMBS, F.S.A. Fourth Edition, revised and enlarged. 5s.‡

186. *A GRAMMAR OF COLOURING*, applied to Decorative Painting and the Arts. By GEORGE FIELD. New Edition, enlarged and adapted to the Use of the Ornamental Painter and Designer. By ELLIS A. DAVIDSON. With two new Coloured Diagrams, &c. 3s.‡

246. *A DICTIONARY OF PAINTERS, AND HANDBOOK FOR PICTURE AMATEURS*; including Methods of Painting, Cleaning, Relining and Restoring, Schools of Painting, &c. With Notes on the Copyists and Imitators of each Master. By PHILIPPE DARYL. 2s. 6d.‡

☞ *The ‡ indicates that these vols. may be had strongly bound at 6d. extra.*

Digitized by Google

AGRICULTURE, GARDENING, ETC.

131. *MILLER'S, MERCHANT'S, AND FARMER'S READY* RECKONER. With approximate values of Millstones, Millwork, &c. 1s.

140. *SOILS, MANURES, AND CROPS.* (Vol. 1. OUTLINES OF MODERN FARMING.) By R. SCOTT BURN. Woodcuts. 2s.

141. *FARMING & FARMING ECONOMY,* Notes, Historical and Practical, on. (Vol. 2. OUTLINES OF MODERN FARMING.) By R. SCOTT BURN. 3s.

142. *STOCK; CATTLE, SHEEP, AND HORSES.* (Vol. 3. OUTLINES OF MODERN FARMING.) By R. SCOTT BURN. Woodcuts. 2s. 6d.

145. *DAIRY, PIGS, AND POULTRY,* Management of the. By R. SCOTT BURN. With Notes on the Diseases of Stock. (Vol. 4. OUTLINES OF MODERN FARMING.) Woodcuts. 2s.

146. *UTILIZATION OF SEWAGE, IRRIGATION, AND* RECLAMATION OF WASTE LAND. (Vol. 5. OUTLINES OF MODERN FARMING.) By R. SCOTT BURN. Woodcuts. 2s. 6d.

*** *Nos.* 140-1-2-5-6, *in One Vol., handsomely half-bound, entitled* "OUTLINES OF MODERN FARMING." By ROBERT SCOTT BURN. *Price* 12s.

177. *FRUIT TREES,* The Scientific and Profitable Culture of. From the French of DU BREUIL. Revised by GEO. GLENNY. 187 Woodcuts. 3s. 6d.‡

198. *SHEEP; THE HISTORY, STRUCTURE, ECONOMY, AND* DISEASES OF. By W. C. SPOONER, M.R.V.C., &c. Fourth Edition, enlarged, including Specimens of New and Improved Breeds. 3s. 6d.‡

201. *KITCHEN GARDENING MADE EASY.* Showing how to prepare and lay out the ground, the best means of cultivating every known Vegetable and Herb, &c. By GEORGE M. F. GLENNY. 1s. 6d.‡

207. *OUTLINES OF FARM MANAGEMENT, and the Organization of Farm Labour:* Treating of the General Work of the Farm; Field and Live Stock; Details of Contract Work; Specialities of Labour, &c., &c. By ROBERT SCOTT BURN. 2s. 6d.‡

208. *OUTLINES OF LANDED ESTATES MANAGEMENT:* Treating of the Varieties of Lands, Methods of Farming, Farm Buildings, Irrigation, Drainage, &c. By R. SCOTT BURN. 2s. 6d.‡

*** *Nos.* 207 & 208 *in One Vol., handsomely half-bound, entitled* "OUTLINES OF LANDED ESTATES AND FARM MANAGEMENT." By R. SCOTT BURN. *Price* 6s.

209. *THE TREE PLANTER AND PLANT PROPAGATOR.* A Practical Manual on the Propagation of Forest Trees, Fruit Trees, Flowering Shrubs, Flowering Plants, &c. By SAMUEL WOOD. 2s.‡

210. *THE TREE PRUNER.* A Practical Manual on the Pruning of Fruit Trees, including also their Training and Renovation; also the Pruning of Shrubs, Climbers, and Flowering Plants. By SAMUEL WOOD. 2s.‡

*** *Nos.* 209 & 210 *in One Vol., handsomely half-bound, entitled* "THE TREE PLANTER, PROPAGATOR, AND PRUNER." By SAMUEL WOOD. *Price* 5s.

218. *THE HAY AND STRAW MEASURER:* Being New Tables for the Use of Auctioneers, Valuers, Farmers, Hay and Straw Dealers, &c., forming a complete Calculator and Ready-Reckoner, especially adapted to persons connected with Agriculture. Fourth Edition. By JOHN STEELE. 2s.

222. *SUBURBAN FARMING.* The Laying-out and Cultivation of Farms, adapted to the Produce of Milk, Butter, and Cheese, Eggs, Poultry, and Pigs. By Prof. JOHN DONALDSON and R. SCOTT BURN. 3s. 6d.‡

231. *THE ART OF GRAFTING AND BUDDING.* By CHARLES BALTET. With Illustrations. 2s. 6d.‡ [*Just published.*

232. *COTTAGE GARDENING;* or, Flowers, Fruits, and Vegetables for Small Gardens. By E. HOBDAY. 1s. 6d. [*Just published.*

233. *GARDEN RECEIPTS.* Edited by CHARLES W. QUIN. 1s. 6d. [*Just published.*

234. *THE KITCHEN AND MARKET GARDEN.* By Contributors to "The Garden." Compiled by C. W. SHAW, Editor of "Gardening Illustrated." 430 pp. 3s.‡ [*Just published.*

☞ *The ‡ indicates that these vols. may be had strongly bound at 6d. extra.*

Digitized by Google

Agriculture, Gardening, etc., *continued.*

239. *DRAINING AND EMBANKING.* A Practical Treatise, embodying the most recent experience in the Application of Improved Methods. By JOHN SCOTT, late Professor of Agriculture and Rural Economy at the Royal Agricultural College, Cirencester. With 68 Illustrations. 1s. 6d.
[*Just published.*

240. *IRRIGATION AND WATER SUPPLY.* A Treatise on Water Meadows, Sewage Irrigation, Warping, &c.; on the Construction of Wells, Ponds, and Reservoirs; and on Raising Water by Machinery for Agricultural and Domestic Purposes. By Professor JOHN SCOTT. With 34 Illustrations. 1s. 6d.
[*Just published.*

*** *Nos.* 239 *and* 240 *form part of* SCOTT'S "FARM ENGINEERING TEXT-BOOKS." *The following Volumes, completing the Series, are in active preparation:—*

FARM ROADS, FENCES, AND GATES. | FARM BUILDINGS.
AGRICULTURAL SURVEYING, LEVELLING, &c. | FIELD IMPLEMENTS AND MACHINES.
BARN IMPLEMENTS AND MACHINES.

ARITHMETIC, GEOMETRY, MATHEMATICS, ETC.

32. *MATHEMATICAL INSTRUMENTS,* a Treatise on; in which their Construction and the Methods of Testing, Adjusting, and Using them are concisely Explained. By J. F. HEATHER, M.A., of the Royal Military Academy, Woolwich. Original Edition, in 1 vol., Illustrated. 1s. 6d.

*** *In ordering the above, be careful to say, "Original Edition"* (*No.* 32), *to distinguish it from the Enlarged Edition in* 3 *vols.* (*Nos.* 168-9-70.)

60. *LAND AND ENGINEERING SURVEYING,* a Treatise on; with all the Modern Improvements. Arranged for the Use of Schools and Private Students; also for Practical Land Surveyors and Engineers. By T. BAKER, C.E. New Edition, revised by EDWARD NUGENT, C.E. Illustrated with Plates and Diagrams. 2s.†

61*. *READY RECKONER FOR THE ADMEASUREMENT OF* LAND. By ABRAHAM ARMAN. New Edition, revised by C. NORRIS.
[*In preparation.*

76. *DESCRIPTIVE GEOMETRY,* an Elementary Treatise on; with a Theory of Shadows and of Perspective, extracted from the French of G. MONGE. To which is added, a description of the Principles and Practice of Isometrical Projection; the whole being intended as an introduction to the Application of Descriptive Geometry to various branches of the Arts. By J. F. HEATHER, M.A. Illustrated with 14 Plates. 2s.

178. *PRACTICAL PLANE GEOMETRY:* giving the Simplest Modes of Constructing Figures contained in one Plane and Geometrical Construction of the Ground. By J. F. HEATHER, M.A. With 215 Woodcuts. 2s.

179. *PROJECTION:* Orthographic, Topographic, and Perspective. By J. F. HEATHER, M.A.
[*In preparation.*

*** *The above three volumes will form a* COMPLETE ELEMENTARY COURSE OF MATHEMATICAL DRAWING.

83. *COMMERCIAL BOOK-KEEPING.* With Commercial Phrases and Forms in English, French, Italian, and German. By JAMES HADDON, M.A., Arithmetical Master of King's College School, London. 1s. 6d.

84. *ARITHMETIC,* a Rudimentary Treatise on: with full Explanations of its Theoretical Principles, and numerous Examples for Practice. By Professor J. R. YOUNG. Tenth Edition, corrected. 1s. 6d.

84*. A KEY to the above, containing Solutions in full to the Exercises, together with Comments, Explanations, and Improved Processes, for the Use of Teachers and Unassisted Learners. By J. R. YOUNG. 1s. 6d.

85. *EQUATIONAL ARITHMETIC,* applied to Questions of Interest,

85*. Annuities, Life Assurance, and General Commerce; with various Tables by which all Calculations may be greatly facilitated. By W. HIPSLEY. 2s.

86. *ALGEBRA,* the Elements of. By JAMES HADDON, M.A. With Appendix, containing miscellaneous Investigations, and a Collection of Problems in various parts of Algebra. 2s.

86*. A KEY AND COMPANION to the above Book, forming an extensive repository of Solved Examples and Problems in Illustration of the various Expedients necessary in Algebraical Operations. By J. R. YOUNG. 1s. 6d.

☞ *The* † *indicates that these vols. may be had strongly bound at 6d. extra.*

Digitized by Google

Arithmetic, Geometry, Mathematics, etc., *continued.*

88. *EUCLID*, THE ELEMENTS OF: with many additional Propositions
89. and Explanatory Notes: to which is prefixed, an Introductory Essay on Logic. By HENRY LAW, C.E. 2s. 6d.‡

*** *Sold also separately, viz.:—*

88. EUCLID, The First Three Books. By HENRY LAW, C.E. 1s. 6d.
89. EUCLID, Books 4, 5, 6, 11, 12. By HENRY LAW, C.E. 1s. 6d.

90. *ANALYTICAL GEOMETRY AND CONIC SECTIONS*, By JAMES HANN. A New Edition, re-written and enlarged by Professor J. R. YOUNG. 2s.‡

91. *PLANE TRIGONOMETRY*, the Elements of. By JAMES HANN, formerly Mathematical Master of King's College, London. 1s. 6d.

92. *SPHERICAL TRIGONOMETRY*, the Elements of. By JAMES HANN. Revised by CHARLES H. DOWLING, C.E. 1s.

*** *Or with "The Elements of Plane Trigonometry," in One Volume*, 2s. 6d.

93. *MENSURATION AND MEASURING*, for Students and Practical Use. With the Mensuration and Levelling of Land for the Purposes of Modern Engineering. By T. BAKER, C.E. New Edition, with Corrections and Additions by E. NUGENT, C.E. Illustrated. 1s. 6d.

102. *INTEGRAL CALCULUS*, Rudimentary Treatise on the. By HOMERSHAM COX, B.A. Illustrated. 1s.

103. *INTEGRAL CALCULUS*, Examples on the. By JAMES HANN, late of King's College, London. Illustrated. 1s.

101. *DIFFERENTIAL CALCULUS*, Elements of the. By W. S. B. WOOLHOUSE, F.R.A.S., &c. 1s. 6d.

105. *MNEMONICAL LESSONS.*—GEOMETRY, ALGEBRA, AND TRIGONOMETRY, in Easy Mnemonical Lessons. By the Rev. THOMAS PENYNGTON KIRKMAN, M.A. 1s. 6d.

136. *ARITHMETIC*, Rudimentary, for the Use of Schools and Self-Instruction. By JAMES HADDON, M.A. Revised by A. ARMAN. 1s. 6d.

137. A KEY TO HADDON'S RUDIMENTARY ARITHMETIC. By A. ARMAN. 1s. 6d.

168. *DRAWING AND MEASURING INSTRUMENTS.* Including—I. Instruments employed in Geometrical and Mechanical Drawing, and in the Construction, Copying, and Measurement of Maps and Plans. II. Instruments used for the purposes of Accurate Measurement, and for Arithmetical Computations. By J. F. HEATHER, M.A., late of the Royal Military Academy Woolwich. Illustrated. 1s. 6d

169. *OPTICAL INSTRUMENTS.* Including (more especially) Telescopes, Microscopes, and Apparatus for producing copies of Maps and Plans by Photography. By J. F. HEATHER, M.A. Illustrated. 1s. 6d.

170. *SURVEYING AND ASTRONOMICAL INSTRUMENTS.* Including—I. Instruments Used for Determining the Geometrical Features of a portion of Ground. II. Instruments Employed in Astronomical Observations. By J. F. HEATHER, M.A. Illustrated. 1s. 6d.

*** *The above three volumes form an enlargement of the Author's original work, "Mathematical Instruments: their Construction, Adjustment, Testing, and Use," the Thirteenth Edition of which is on sale, price 1s. 6d. (See No. 32 in the Series.)*

168. 169. 170. *MATHEMATICAL INSTRUMENTS.* By J. F. HEATHER, M.A. Enlarged Edition, for the most part entirely re-written. The 3 Parts as above, in One thick Volume. With numerous Illustrations. 4s. 6d.‡

158. *THE SLIDE RULE, AND HOW TO USE IT;* containing full, easy, and simple Instructions to perform all Business Calculations with unexampled rapidity and accuracy. By CHARLES HOARE, C.E. With a Slide Rule in tuck of cover. 2s. 6d.‡

185. *THE COMPLETE MEASURER;* the Measurement of Boards, Glass, &c.; Unequal-sided, Square-sided, Octagonal-sided, Round Timber and Stone, and Standing Timber, &c. For the use of Timber-growers, Merchants, and Surveyors, Stonemasons, Architects, and others. By RICHARD HORTON. Fourth Edition. 4s.; strongly bound in leather, 5s.

196. *THEORY OF COMPOUND INTEREST AND ANNUITIES*; with Tables of Logarithms for the more Difficult Computations of Interest, Discount, Annuities, &c. By FÉDOR THOMAN. 4s.‡

☞ *The ‡ indicates that these vols. may be had strongly bound at 6d. extra.*

Digitized by Google

Arithmetic, Geometry, Mathematics, etc., *continued.*

199. *INTUITIVE CALCULATIONS;* or, Easy and Compendious Methods of Performing the various Arithmetical Operations required in Commercial and Business Transactions; together with Full Explanations of Decimals and Duodecimals, several Useful Tables, &c. By DANIEL O'GORMAN. Twenty-fifth Edition, corrected and enlarged by J. R. YOUNG, formerly Professor of Mathematics in Belfast College. 3s.‡

204. *MATHEMATICAL TABLES,* for Trigonometrical, Astronomical, and Nautical Calculations; to which is prefixed a Treatise on Logarithms. By HENRY LAW, C.E. Together with a Series of Tables for Navigation and Nautical Astronomy. By J. R. YOUNG, formerly Professor of Mathematics in Belfast College. New Edition. 3s. 6d.‡

221. *MEASURES, WEIGHTS, AND MONEYS OF ALL NATIONS,* and an Analysis of the Christian, Hebrew, and Mahometan Calendars. By W. S. B. WOOLHOUSE, F.R.A.S., F.S.S. Sixth Edition, carefully revised and enlarged. 2s.‡

227. *MATHEMATICS AS APPLIED TO THE CONSTRUCTIVE ARTS.* Illustrating the various processes of Mathematical Investigation, by means of Arithmetical and Simple Algebraical Equations and Practical Examples; also the Methods of Analysing Principles and Deducing Rules and Formulæ, applicable to the Requirements of Practice. By FRANCIS CAMPIN, C.E., Author of "Materials and Construction," &c. Second Edition, revised and enlarged by the Author. 3s.‡ [*Just published.*

MISCELLANEOUS VOLUMES.

36. *A DICTIONARY OF TERMS used in ARCHITECTURE, BUILDING, ENGINEERING, MINING, METALLURGY, ARCHÆOLOGY, the FINE ARTS, &c.* By JOHN WEALE. Fifth Edition. Revised by ROBERT HUNT, F.R.S., Keeper of Mining Records. Numerous Illustrations. 5s. cloth limp; 6s. cloth boards.

50. *THE LAW OF CONTRACTS FOR WORKS AND SERVICES.* By DAVID GIBBONS. Third Edition, enlarged. 3s.‡

112. *MANUAL OF DOMESTIC MEDICINE.* By R. GOODING, B.A., M.D. Intended as a Family Guide in all Cases of Accident and Emergency. Third Edition. 2s.‡

112*. *MANAGEMENT OF HEALTH.* A Manual of Home and Personal Hygiene. By the Rev. JAMES BAIRD, B.A. 1s.

150. *LOGIC,* Pure and Applied. By S. H. EMMENS. 1s. 6d.

153. *SELECTIONS FROM LOCKE'S ESSAYS ON THE HUMAN UNDERSTANDING.* With Notes by S. H. EMMENS. 2s.

154. *GENERAL HINTS TO EMIGRANTS.* Containing Notices of the various Fields for Emigration. With Hints on Preparation for Emigrating, Outfits, &c., &c. With Directions and Recipes useful to the Emigrant. With a Map of the World. 2s.

157. *THE EMIGRANT'S GUIDE TO NATAL.* By ROBERT JAMES MANN, F.R.A.S., F.M.S. Second Edition, carefully corrected to the present Date. Map. 2s.

193. *HANDBOOK OF FIELD FORTIFICATION,* intended for the Guidance of Officers Preparing for Promotion, and especially adapted to the requirements of Beginners. By Major W. W. KNOLLYS, F.R.G.S., 93rd Sutherland Highlanders, &c. With 163 Woodcuts. 3s.‡

194. *THE HOUSE MANAGER:* Being a Guide to Housekeeping Practical Cookery, Pickling and Preserving, Household Work, Dairy Management, the Table and Dessert, Cellarage of Wines, Home-brewing and Wine-making, the Boudoir and Dressing-room, Travelling, Stable Economy, Gardening Operations, &c. By AN OLD HOUSEKEEPER. 3s. 6d.‡

194. *HOUSE BOOK (The).* Comprising:—I. THE HOUSE MANAGER.
112. & 112*. By an OLD HOUSEKEEPER. II. DOMESTIC MEDICINE. By RALPH GOODING, M.D. III. MANAGEMENT OF HEALTH. By JAMES BAIRD. In One Vol., strongly half-bound. 6s.

☞ *The ‡ indicates that these vols. may be had strongly bound at 6d. extra.*

Digitized by Google

EDUCATIONAL AND CLASSICAL SERIES.

HISTORY.

1. **England, Outlines of the History of;** more especially with reference to the Origin and Progress of the English Constitution. By WILLIAM DOUGLAS HAMILTON, F.S.A., of Her Majesty's Public Record Office. 4th Edition, revised. 5s.; cloth boards, 6s.

5. **Greece, Outlines of the History of;** in connection with the Rise of the Arts and Civilization in Europe. By W. DOUGLAS HAMILTON, of University College, London, and EDWARD LEVIEN, M.A., of Balliol College, Oxford. 2s. 6d.; cloth boards, 3s. 6d.

7. **Rome, Outlines of the History of:** from the Earliest Period to the Christian Era and the Commencement of the Decline of the Empire By EDWARD LEVIEN, of Balliol College, Oxford. Map, 2s. 6d.; cl. bds. 3s. 6d.

9. **Chronology of History, Art, Literature, and Progress,** from the Creation of the World to the Conclusion of the Franco-German War. The Continuation by W. D. HAMILTON, F.S.A. 3s.; cloth boards, 3s. 6d.

50. **Dates and Events in English History,** for the use of Candidates in Public and Private Examinations. By the Rev. E. RAND. 1s.

ENGLISH LANGUAGE AND MISCELLANEOUS.

11. **Grammar of the English Tongue,** Spoken and Written. With an Introduction to the Study of Comparative Philology. By HYDE CLARKE, D.C.L. Fourth Edition. 1s. 6d.

11*. **Philology:** Handbook of the Comparative Philology of English, Anglo-Saxon, Frisian, Flemish or Dutch, Low or Platt Dutch, High Dutch or German, Danish, Swedish, Icelandic, Latin, Italian, French, Spanish, and Portuguese Tongues. By HYDE CLARKE, D.C.L. 1s.

12. **Dictionary of the English Language,** as Spoken and Written. Containing above 100,000 Words. By HYDE CLARKE, D.C.L. 3s. 6d.; cloth boards, 4s. 6d.; complete with the GRAMMAR, cloth bds., 5s. 6d.

48. **Composition and Punctuation,** familiarly Explained for those who have neglected the Study of Grammar. By JUSTIN BRENAN. 17th Edition. 1s. 6d.

49. **Derivative Spelling-Book:** Giving the Origin of Every Word from the Greek, Latin, Saxon, German, Teutonic, Dutch, French, Spanish, and other Languages; with their present Acceptation and Pronunciation. By J. ROWBOTHAM, F.R.A.S. Improved Edition. 1s. 6d.

51. **The Art of Extempore Speaking:** Hints for the Pulpit, the Senate, and the Bar. By M. BAUTAIN, Vicar-General and Professor at the Sorbonne. Translated from the French. 7th Edition, carefully corrected. 2s. 6d.

52. **Mining and Quarrying,** with the Sciences connected therewith. First Book of, for Schools. By J. H. COLLINS, F.G.S., Lecturer to the Miners' Association of Cornwall and Devon. 1s.

53. **Places and Facts in Political and Physical Geography,** for Candidates in Examinations. By the Rev. EDGAR RAND, B.A. 1s.

54. **Analytical Chemistry,** Qualitative and Quantitative, a Course of. To which is prefixed, a Brief Treatise upon Modern Chemical Nomenclature and Notation. By WM. W. PINK and GEORGE E. WEBSTER. 2s.

THE SCHOOL MANAGERS' SERIES OF READING BOOKS,

Adapted to the Requirements of the New Code. Edited by the Rev. A. R. GRANT, Rector of Hitcham, and Honorary Canon of Ely; formerly H.M. Inspector of Schools.

INTRODUCTORY PRIMER, 3*d*.

	s. d.		s. d.
FIRST STANDARD . .	0 6	FOURTH STANDARD	1 2
SECOND " . .	0 10	FIFTH "	1 6
THIRD " . .	1 0	SIXTH "	1 6

LESSONS FROM THE BIBLE. Part I. Old Testament. 1s.

LESSONS FROM THE BIBLE. Part II. New Testament, to which is added THE GEOGRAPHY OF THE BIBLE, for very young Children. By Rev. C. THORNTON FORSTER. 1s. 2d. *** Or the Two Parts in One Volume. 2s.

Digitized by Google

FRENCH.

24. **French Grammar.** With Complete and Concise Rules on the Genders of French Nouns. By G. L. STRAUSS, Ph.D. 1s. 6d.
25. **French-English Dictionary.** Comprising a large number of New Terms used in Engineering, Mining, &c. By ALFRED ELWES. 1s. 6d.
26. **English-French Dictionary.** By ALFRED ELWES. 2s.
25,26. **French Dictionary** (as above). Complete, in One Vol., 3s.; cloth boards, 3s. 6d. *** Or with the GRAMMAR, cloth boards, 4s. 6d.
47. **French and English Phrase Book:** containing Introductory Lessons, with Translations, several Vocabularies of Words, a Collection of suitable Phrases, and Easy Familiar Dialogues. 1s. 6d.

GERMAN.

39. **German Grammar.** Adapted for English Students, from Heyse's Theoretical and Practical Grammar, by Dr. G. L. STRAUSS. 1s.
40. **German Reader:** A Series of Extracts, carefully culled from the most approved Authors of Germany; with Notes, Philological and Explanatory. By G. L. STRAUSS, Ph.D. 1s.
41-43. **German Triglot Dictionary.** By NICHOLAS ESTERHAZY S. A. HAMILTON. In Three Parts. Part I. German-French-English. Part II. English-German-French. Part III. French-German-English. 3s., or cloth boards, 4s.
41-43 & 39. **German Triglot Dictionary** (as above), together with German Grammar (No. 39), in One Volume, cloth boards, 5s.

ITALIAN.

27. **Italian Grammar,** arranged in Twenty Lessons, with a Course of Exercises. By ALFRED ELWES. 1s. 6d.
28. **Italian Triglot Dictionary,** wherein the Genders of all the Italian and French Nouns are carefully noted down. By ALFRED ELWES. Vol. 1. Italian-English-French. 2s. 6d.
30. **Italian Triglot Dictionary.** By A. ELWES. Vol. 2. English-French-Italian. 2s. 6d.
32. **Italian Triglot Dictionary.** By ALFRED ELWES. Vol. 3. French-Italian-English. 2s. 6d.
28,30, 32. **Italian Triglot Dictionary** (as above). In One Vol., 7s. 6d. Cloth boards.

SPANISH AND PORTUGUESE.

34. **Spanish Grammar,** in a Simple and Practical Form. With a Course of Exercises. By ALFRED ELWES. 1s. 6d.
35. **Spanish-English and English-Spanish Dictionary.** Including a large number of Technical Terms used in Mining, Engineering, &c., with the proper Accents and the Gender of every Noun. By ALFRED ELWES. 4s.; cloth boards, 5s. *** Or with the GRAMMAR, cloth boards, 6s.
55. **Portuguese Grammar,** in a Simple and Practical Form. With a Course of Exercises. By ALFRED ELWES. 1s. 6d.
56. **Portuguese-English and English-Portuguese Dictionary,** with the Genders of each Noun. By ALFRED ELWES. [*In the press.*

HEBREW.

46*. **Hebrew Grammar.** By Dr. BRESSLAU. 1s. 6d.
44. **Hebrew and English Dictionary,** Biblical and Rabbinical; containing the Hebrew and Chaldee Roots of the Old Testament Post-Rabbinical Writings. By Dr. BRESSLAU. 6s.
46. **English and Hebrew Dictionary.** By Dr. BRESSLAU. 3s.
44,46, 46*. **Hebrew Dictionary** (as above), in Two Vols., complete, with the GRAMMAR, cloth boards, 12s.

Digitized by Google

LATIN.

19. **Latin Grammar.** Containing the Inflections and Elementary Principles of Translation and Construction. By the Rev. THOMAS GOODWIN, M.A., Head Master of the Greenwich Proprietary School. 1s.

20. **Latin-English Dictionary.** By the Rev. THOMAS GOODWIN, M.A. 2s.

22. **English-Latin Dictionary;** together with an Appendix of French and Italian Words which have their origin from the Latin. By the Rev. THOMAS GOODWIN, M.A. 1s. 6d.

20,22. **Latin Dictionary** (as above). Complete in One Vol., 3s. 6d.; cloth boards, 4s. 6d. *** Or with the GRAMMAR, cloth boards, 5s. 6d.

LATIN CLASSICS. With Explanatory Notes in English.

1. **Latin Delectus.** Containing Extracts from Classical Authors, with Genealogical Vocabularies and Explanatory Notes, by H. YOUNG. 1s. 6d.

2. **Cæsaris Commentarii de Bello Gallico.** Notes, and a Geographica Register for the Use of Schools, by H. YOUNG. 2s.

3. **Cornelius Nepos.** With Notes. By H. YOUNG. 1s.

4. **Virgilii Maronis Bucolica et Georgica.** With Notes on the Bucolics by W. RUSHTON, M.A., and on the Georgics by H. YOUNG. 1s. 6d.

5. **Virgilii Maronis Æneis.** With Notes, Critical and Explanatory, by H. YOUNG. New Edition, revised and improved. With copious Additional Notes by Rev. T. H. L. LEARY, D.C.L., formerly Scholar of Brasenose College, Oxford. 3s.

5* ——— Part 1. Books i.—vi., 1s. 6d.

5** ——— Part 2. Books vii.—xii., 2s.

6. **Horace; Odes, Epode, and Carmen Sæculare.** Notes by H. YOUNG. 1s. 6d.

7. **Horace; Satires, Epistles, and Ars Poetica.** Notes by W. BROWNRIGG SMITH, M.A., F.R.G.S. 1s. 6d.

8. **Sallustii Crispi Catalina et Bellum Jugurthinum.** Notes, Critical and Explanatory, by W. M. DONNE, B.A., Trin. Coll., Cam. 1s. 6d.

9. **Terentii Andria et Heautontimorumenos.** With Notes, Critical and Explanatory, by the Rev. JAMES DAVIES, M.A. 1s. 6d.

10. **Terentii Adelphi, Hecyra, Phormio.** Edited, with Notes, Critical and Explanatory, by the Rev. JAMES DAVIES, M.A. 2s.

11. **Terentii Eunuchus, Comœdia.** Notes, by Rev. J. DAVIES, M.A. 1s. 6d.

12. **Ciceronis Oratio pro Sexto Roscio Amerino.** Edited, with an Introduction, Analysis, and Notes, Explanatory and Critical, by the Rev. JAMES DAVIES, M.A. 1s. 6d.

13. **Ciceronis Orationes in Catilinam, Verrem, et pro Archia.** With Introduction, Analysis, and Notes, Explanatory and Critical, by Rev. T. H. L. LEARY, D.C.L. formerly Scholar of Brasenose College, Oxford. 1s. 6d.

14. **Ciceronis Cato Major, Lælius, Brutus, sive de Senectute, de Amicitia, de Claris Oratoribus Dialogi.** With Notes by W. BROWNRIGG SMITH, M.A., F.R.G.S. 2s.

16. **Livy: History of Rome.** Notes by H. YOUNG and W. B. SMITH, M.A. Part 1. Books i., ii., 1s. 6d.

16*. ——— Part 2. Books iii., iv., v., 1s. 6d.

17. ——— Part 3. Books xxi., xxii., 1s. 6d.

19. **Latin Verse Selections,** from Catullus, Tibullus, Propertius, and Ovid. Notes by W. B. DONNE, M.A., Trinity College, Cambridge. 2s.

20. **Latin Prose Selections,** from Varro, Columella, Vitruvius, Seneca, Quintilian, Florus, Velleius Paterculus, Valerius Maximus Suetonius, Apuleius, &c. Notes by W. B. DONNE, M.A. 2s.

21. **Juvenalis Satiræ.** With Prolegomena and Notes by T. H. S. ESCOTT, B.A., Lecturer on Logic at King's College, London. 2s.

Digitized by Google

GREEK.

14. **Greek Grammar,** in accordance with the Principles and Philological Researches of the most eminent Scholars of our own day. By HANS CLAUDE HAMILTON. 1s. 6d.

15,17. **Greek Lexicon.** Containing all the Words in General Use, with their Significations, Inflections, and Doubtful Quantities. By HENRY R. HAMILTON. Vol. 1. Greek-English, 2s. 6d.; Vol. 2. English-Greek, 2s. Or the Two Vols. in One, 4s. 6d.: cloth boards, 5s.

14,15. 17. **Greek Lexicon** (as above). Complete, with the GRAMMAR, in One Vol., cloth boards, 6s.

GREEK CLASSICS. With Explanatory Notes in English.

1. **Greek Delectus.** Containing Extracts from Classical Authors, with Genealogical Vocabularies and Explanatory Notes, by H. YOUNG. New Edition, with an improved and enlarged Supplementary Vocabulary, by JOHN HUTCHISON, M.A., of the High School, Glasgow. 1s. 6d.

2, 3. **Xenophon's Anabasis;** or, The Retreat of the Ten Thousand. Notes and a Geographical Register, by H. YOUNG. Part 1. Books i. to iii., 1s. Part 2. Books iv. to vii., 1s.

4. **Lucian's Select Dialogues.** The Text carefully revised, with Grammatical and Explanatory Notes, by H. YOUNG. 1s. 6d.

5-12. **Homer,** The Works of. According to the Text of BARUMLEIN. With Notes, Critical and Explanatory, drawn from the best and latest Authorities, with Preliminary Observations and Appendices, by T. H. L. LEARY, M.A., D.C.L.

THE ILIAD: Part 1. Books i. to vi., 1s. 6d.
Part 2. Books vii. to xii., 1s. 6d.
Part 3. Books xiii. to xviii., 1s. 6d.
Part 4. Books xix. to xxiv., 1s. 6d.

THE ODYSSEY. Part 1. Books i. to vi., 1s. 6d
Part 2. Books vii. to xii., 1s. 6d.
Part 3. Books xiii. to xviii., 1s. 6d.
Part 4. Books xix. to xxiv., and Hymns, 2s.

13. **Plato's Dialogues:** The Apology of Socrates, the Crito, and the Phædo. From the Text of C. F. HERMANN. Edited with Notes, Critical and Explanatory, by the Rev. JAMES DAVIES, M.A. 2s.

14-17. **Herodotus,** The History of, chiefly after the Text of GAISFORD. With Preliminary Observations and Appendices, and Notes, Critical and Explanatory, by T. H. L. LEARY, M.A., D.C.L.
Part 1. Books i., ii. (The Clio and Euterpe), 2s.
Part 2. Books iii., iv. (The Thalia and Melpomene), 2s.
Part 3. Books v.-vii. (The Terpsichore, Erato, and Polymnia), 2s.
Part 4. Books viii., ix. (The Urania and Calliope) and Index, 1s. 6d.

18. **Sophocles:** Œdipus Tyrannus. Notes by H. YOUNG. 1s.

20. **Sophocles:** Antigone. From the Text of DINDORF. Notes, Critical and Explanatory, by the Rev. JOHN MILNER, B.A. 2s.

23. **Euripides:** Hecuba and Medea. Chiefly from the Text of DINDORF. With Notes, Critical and Explanatory, by W. BROWNRIGG SMITH, M.A., F.R.G.S. 1s. 6d.

26. **Euripides:** Alcestis. Chiefly from the Text of DINDORF. With Notes, Critical and Explanatory, by JOHN MILNER, B.A. 1s. 6d.

30. **Æschylus:** Prometheus Vinctus: The Prometheus Bound. From the Text of DINDORF. Edited, with English Notes, Critical and Explanatory, by the Rev. JAMES DAVIES, M.A. 1s.

32. **Æschylus:** Septem Contra Thebes: The Seven against Thebes. From the Text of DINDORF. Edited, with English Notes, Critical and Explanatory, by the Rev. JAMES DAVIES, M.A. 1s.

40. **Aristophanes:** Acharnians. Chiefly from the Text of C. H. WEISE. With Notes, by C. S. T. TOWNSHEND, M.A. 1s. 6d.

41. **Thucydides:** History of the Peloponnesian War. Notes by H. YOUNG. Book 1. 1s.

42. **Xenophon's Panegyric on Agesilaus.** Notes and Introduction by LL. F. W. JEWITT. 1s. 6d.

43. **Demosthenes.** The Oration on the Crown and the Philippics. With English Notes. By Rev. T. H. L. LEARY, D.C.L., formerly Scholar of Brasenose College, Oxford. 1s. 6d.

Digitized by Google

LONDON, *July*, 1883.

A Catalogue of Books

INCLUDING MANY NEW AND STANDARD WORKS IN

ENGINEERING, ARCHITECTURE, AGRICULTURE, MATHEMATICS, MECHANICS, SCIENCE, ETC.

PUBLISHED BY

CROSBY LOCKWOOD & CO.,

7, STATIONERS'-HALL COURT, LUDGATE HILL, E.C.

ENGINEERING, SURVEYING, ETC.

Humber's Work on Water-Supply.

A COMPREHENSIVE TREATISE on the WATER-SUPPLY of CITIES and TOWNS. By WILLIAM HUMBER, A.-M. Inst. C.E., and M. Inst. M.E. Illustrated with 50 Double Plates, 1 Single Plate, Coloured Frontispiece, and upwards of 250 Woodcuts, and containing 400 pages of Text. Imp. 4to, 6*l.* 6*s.* elegantly and substantially half-bound in morocco.

List of Contents:—

I. Historical Sketch of some of the means that have been adopted for the Supply of Water to Cities and Towns.—II. Water and the Foreign Matter usually associated with it.—III. Rainfall and Evaporation.—IV. Springs and the water-bearing formations of various districts.—V. Measurement and Estimation of the Flow of Water.—VI. On the Selection of the Source of Supply.—VII. Wells.—VIII. Reservoirs.—IX. The Purification of Water.—X. Pumps.—XI. Pumping Machinery.—XII. Conduits.—XIII. Distribution of Water.—XIV. Meters, Service Pipes, and House Fittings.—XV. The Law and Economy of Water Works.—XVI. Constant and Intermittent Supply.—XVII. Description of Plates.—Appendices, giving Tables of Rates of Supply, Velocities, &c. &c., together with Specifications of several Works illustrated, among which will be found:—Aberdeen, Bideford, Canterbury, Dundee, Halifax, Lambeth, Rotherham, Dublin, and others.

"The most systematic and valuable work upon water supply hitherto produced in English, or in any other language . . . . Mr. Humber's work is characterised almost throughout by an exhaustiveness much more distinctive of French and German than of English technical treatises."—*Engineer.*

Humber's Work on Bridge Construction.

A COMPLETE and PRACTICAL TREATISE on CAST and WROUGHT-IRON BRIDGE CONSTRUCTION, including Iron Foundations. In Three Parts—Theoretical, Practical, and Descriptive. By WILLIAM HUMBER, A.-M. Inst. C.E., and M. Inst. M.E. Third Edition, with 115 Double Plates. In 2 vols. imp. 4to, 6*l.* 16*s.* 6*d.* half-bound in morocco.

"A book—and particularly a large and costly treatise like Mr. Humber's—which has reached its third edition may certainly be said to have established its own reputation."—*Engineering.*

Digitized by Google

Humber's Modern Engineering.

A RECORD of the PROGRESS of MODERN ENGINEERING. First Series. Comprising Civil, Mechanical, Marine, Hydraulic, Railway, Bridge, and other Engineering Works, &c. By WILLIAM HUMBER, A.-M. Inst. C.E., &c. Imp. 4to, with 36 Double Plates, drawn to a large scale, and Portrait of John Hawkshaw, C.E., F.R.S., &c., and descriptive Letter-press, Specifications, &c. 3*l.* 3*s.* half morocco.

List of the Plates and Diagrams.

Victoria Station and Roof, L. B. & S. C. R. (8 plates); Southport Pier (2 plates); Victoria Station and Roof, L. C. & D. and G. W. R. (6 plates); Roof of Cremorne Music Hall; Bridge over G. N. Railway; Roof of Station, Dutch Rhenish Rail (2 plates); Bridge over the Thames, West London Extension Railway (5 plates); Armour Plates; Suspension Bridge, Thames (4 plates): The Allen Engine; Suspension Bridge, Avon (3 plates); Underground Railway (3 plates).

HUMBER'S RECORD OF MODERN ENGINEERING. Second Series. Imp. 4to, with 36 Double Plates, Portrait of Robert Stephenson, C.E., &c., and descriptive Letterpress, Specifications, &c. 3*l.* 3*s.* half morocco.

List of the Plates and Diagrams.

Birkenhead Docks, Low Water Basin (15 plates); Charing Cross Station Roof, C. C. Railway (3 plates); Digswell Viaduct, G. N. Railway; Robbery Wood Viaduct, G. N. Railway; Iron Permanent Way; Clydach Viaduct, Merthyr, Tredegar, and Abergavenny Railway; Ebbw Viaduct, Merthyr, Tredegar, and Abergavenny Railway; College Wood Viaduct, Cornwall Railway; Dublin Winter Palace Roof (3 plates); Bridge over the Thames, L. C. and D. Railway (6 plates); Albert Harbour, Greenock (4 plates).

HUMBER'S RECORD OF MODERN ENGINEERING. Third Series. Imp. 4to, with 40 Double Plates, Portrait of J. R. M'Clean, Esq., late Pres. Inst. C.E., and descriptive Letterpress, Specifications, &c. 3*l.* 3*s.* half morocco.

List of the Plates and Diagrams.

MAIN DRAINAGE, METROPOLIS.—*North Side.*—Map showing Interception of Sewers; Middle Level Sewer (2 plates); Outfall Sewer, Bridge over River Lea (3 plates); Outfall Sewer, Bridge over Marsh Lane, North Woolwich Railway, and Bow and Barking Railway Junction; Outfall Sewer, Bridge over Bow and Barking Railway (3 plates); Outfall Sewer, Bridge over East London Waterworks' Feeder (2 plates); Outfall Sewer, Reservoir (2 plates); Outfall Sewer, Tumbling Bay and Outlet; Outfall Sewer, Penstocks. *South Side.*—Outfall Sewer, Bermondsey Branch (2 plates); Outfall Sewer, Reservoir and Outlet (4 plates); Outfall Sewer, Filth Hoist; Sections of Sewers (North and South Sides).

THAMES EMBANKMENT.—Section of River Wall; Steamboat Pier, Westminster (2 plates); Landing Stairs between Charing Cross and Waterloo Bridges; York Gate (2 plates); Overflow and Outlet at Savoy Street Sewer (3 plates); Steamboat Pier, Waterloo Bridge (3 plates); Junction of Sewers, Plans and Sections; Gullies, Plans and Sections; Rolling Stock; Granite and Iron Forts.

HUMBER'S RECORD OF MODERN ENGINEERING. Fourth Series. Imp. 4to, with 36 Double Plates, Portrait of John Fowler, Esq., late Pres. Inst. C.E., and descriptive Letterpress, Specifications, &c. 3*l.* 3*s.* half morocco.

List of the Plates and Diagrams.

Abbey Mills Pumping Station, Main Drainage, Metropolis (4 plates); Barrow Docks (5 plates); Manquis Viaduct, Santiago and Valparaiso Railway (2 plates); Adam's Locomotive, St. Helen's Canal Railway (2 plates); Cannon Street Station Roof, Charing Cross Railway (3 plates); Road Bridge over the River Moka (2 plates). Telegraphic Apparatus for Mesopotamia; Viaduct over the River Wye, Midland Railway (3 plates); St. German's Viaduct, Cornwall Railway (2 plates); Wrought-Iron Cylinder for Diving Bell; Millwall Docks (6 plates); Milroy's Patent Excavator, Metropolitan District Railway (6 plates); Harbours, Ports, and Breakwaters (3 plates).

Digitized by Google

Strains in Iron Frameworks, &c.

GRAPHIC AND ANALYTIC STATICS IN THEORY AND COMPARISON. Their Practical Application to the Treatment of Stresses in Roofs, Solid Girders, Lattice, Bowstring and Suspension Bridges, Braced Iron Arches and Piers, and other Frameworks. To which is added a Chapter on WIND PRESSURES. By R. HUDSON GRAHAM, C.E. Containing Diagrams and Plates to scale, with numerous Examples, many taken from existing Structures. Specially arranged for Class-work in Colleges and Universities. Demy 8vo. [*Nearly ready.*

Strength of Girders.

GRAPHIC TABLE for FACILITATING the COMPUTATION of the WEIGHTS of WROUGHT-IRON and STEEL GIRDERS, &c., for Parliamentary and other Estimates. By J. H. WATSON BUCK, M. Inst. C. E., Assistant Engineer London and North-Western Railway. On a large Sheet, in Strong Card-board Tube, 2*s.* 6*d.* [*Just published.*

Strains, Formulæ & Diagrams for Calculation of.

A HANDY BOOK for the CALCULATION of STRAINS in GIRDERS and SIMILAR STRUCTURES, and their STRENGTH; consisting of Formulæ and Corresponding Diagrams, with numerous Details for Practical Application, &c. By WILLIAM HUMBER, A.-M. Inst. C.E., &c. Third Edition. Cr. 8vo, 7*s.* 6*d.* cl.

Strains.

THE STRAINS ON STRUCTURES OF IRONWORK; with Practical Remarks on Iron Construction. By F. W. SHEILDS, M. Inst. C.E. Second Edition, with 5 Plates. Royal 8vo, 5*s.* cloth.

"The student cannot find a better book on this subject than Mr. Sheilds'."—*Engineer.*

Barlow on the Strength of Materials, enlarged.

A TREATISE ON THE STRENGTH OF MATERIALS, with Rules for application in Architecture, the Construction of Suspension Bridges, Railways, &c. By PETER BARLOW, F.R.S. Revised by his Sons, P. W. and W. H. BARLOW. Edited by W. HUMBER, A-M. Inst. C.E. 8vo, 18*s.* cloth.

"The standard treatise upon this particular subject."—*Engineer.*

Strength of Cast Iron, &c.

A PRACTICAL ESSAY on the STRENGTH of CAST IRON and OTHER METALS. By T. TREDGOLD, C.E. 5th Edition. To which are added, Experimental Researches on the Strength, &c., of Cast Iron. By E. HODGKINSON, F.R.S. 8vo, 12*s.* cloth.

*** HODGKINSON'S RESEARCHES, separate, price 6*s.*

Hydraulics.

HYDRAULIC TABLES, CO-EFFICIENTS, and FORMULÆ for finding the Discharge of Water from Orifices, Notches, Weirs, Pipes, and Rivers. With New Formulæ, Tables, and General Information on Rain-fall, Catchment-Basins, Drainage, Sewerage, and Water Supply. By J. NEVILLE, C.E., M.R.I.A. Third Edition, Revised and Enlarged. Crown 8vo, 14*s.* cloth.

Digitized by Google

Hydraulics.

HYDRAULIC MANUAL. Consisting of Working Tables and Explanatory Text. Intended as a Guide in Hydraulic Calculations and Field Operations. By LOWIS D'A. JACKSON. Fourth Edition. Rewritten and Enlarged. Large Crown 8vo., 16*s.* cloth.

River Engineering.

RIVER BARS: The Causes of their Formation, and their Treatment by 'Induced Tidal Scour,' with a Description of the Successful Reduction by this Method of the Bar at Dublin. By I. J. MANN, Assis. Eng. to the Dublin Port and Docks Board. Rl. 8vo. 7*s.* 6*d.* cl.

Levelling.

A TREATISE on the PRINCIPLES and PRACTICE of LEVELLING; showing its Application to Purposes of Railway and Civil Engineering, in the Construction of Roads; with Mr. TELFORD'S Rules for the same. By FREDERICK W. SIMMS, F.G.S., M. Inst. C.E. Sixth Edition, very carefully revised, with the addition of Mr. LAW'S Practical Examples for Setting out Railway Curves, and Mr. TRAUTWINE'S Field Practice of Laying out Circular Curves. With 7 Plates and numerous Woodcuts. 8vo, 8*s.* 6*d.* cloth. *** TRAUTWINE on Curves, separate, 5*s.*

Practical Tunnelling.

PRACTICAL TUNNELLING: Explaining in detail the Setting out of the Works, Shaft-sinking and Heading-Driving, Ranging the Lines and Levelling under Ground, Sub-Excavating, Timbering, and the Construction of the Brickwork of Tunnels with the amount of labour required for, and the Cost of, the various portions of the work. By F. W. SIMMS, M. Inst. C.E. Third Edition, Revised and Extended. By D. KINNEAR CLARK, M.I.C.E. Imp. 8vo, with 21 Folding Plates and numerous Wood Engravings, 30*s.* cloth.

Steam.

STEAM AND THE STEAM ENGINE, Stationary and Portable. Being an Extension of Sewell's Treatise on Steam. By D. KINNEAR CLARK, M.I.C.E. Second Edition. 12mo, 4*s.* cloth.

Civil and Hydraulic Engineering.

CIVIL ENGINEERING. By HENRY LAW, M. Inst. C.E. Including a Treatise on Hydraulic Engineering, by GEORGE R. BURNELL, M.I.C.E. Sixth Edition, Revised, with large additions, by D. KINNEAR CLARK, M. Inst. C.E. 7*s.* 6*d.*, cloth.

Gas-Lighting.

COMMON SENSE FOR GAS-USERS: a Catechism of Gas-Lighting for Householders, Gasfitters, Millowners, Architects, Engineers, &c. By R. WILSON, C.E. 2nd Edition. Cr. 8vo, 2*s.* 6*d.*

Earthwork.

EARTHWORK TABLES, showing the Contents in Cub'c Yards of Embankments, Cuttings, &c., of Heights or Depths up to an average of 80 feet. By JOSEPH BROADBENT, C.E., and FRANCIS CAMPIN, C E. Cr. 8vo, oblong, 5*s.* cloth.

Digitized by Google

Tramways and their Working.

TRAMWAYS: THEIR CONSTRUCTION and WORKING. Embracing a Comprehensive History of the System, with an Exhaustive Analysis of the various modes of Traction, including Horse-power, Steam, Heated Water, and Compressed Air; a Description of the Varieties of Rolling Stock, and Ample Details of Cost and Working Expenses With 125 Wood Engravings and 13 Folding Plates. ALSO A SUPPLEMENTARY VOLUME: recording the Progress recently made in the Design and Construction of Tramways, and in the Means of Locomotion by Mechanical Power. By D. KINNEAR CLARK, M. Inst. C. E., Author of "Railway Machinery," "Railway Locomotives," &c. With 76 Wood Engravings. 2 vols. Large Crown 8vo, 30*s.* cloth.

"All interested in tramways must refer to it, as all railway engineers have turned to the author's work 'Railway Machinery.'"—*The Engineer.*

"The work is based on former tramway experience, and is specially valuable in these days of rapid change and progress."—*Engineering.*

Steam Engine.

TEXT-BOOK ON THE STEAM ENGINE. By T. M. GOODEVE, M.A., Barrister-at-Law, Author of "The Principles of Mechanics," "The Elements of Mechanism," &c. Fourth Edition. With numerous Illustrations. Crown 8vo, 6*s.* cloth.

"Mr. Goodeve's text-book is a work of which every young engineer should possess himself."—*Mining Journal.*

Steam.

THE SAFE USE OF STEAM: containing Rules for Unprofessional Steam Users. By an ENGINEER. 4th Edition. Sewed, 6*d.*

"If steam-users would but learn this little book by heart, boiler explosions would become sensations by their rarity."—*English Mechanic.*

Smithing and Farriery.

THE SMITHY AND FORGE. A Rudimentary Treatise, including Instructions in the Farrier's Art, and a Chapter on Coach-Smithing. By W. J. E. CRANE. 3*s.* cloth.

Mechanical Engineering.

DETAILS OF MACHINERY: Comprising Instructions for the Execution of various Works in Iron, in the Fitting-Shop, Foundry, and Boiler-Yard. By FRANCIS CAMPIN, C.E. 3*s.* 6*d.* cloth.

Mechanical Engineering.

MECHANICAL ENGINEERING: Comprising Metallurgy, Moulding, Casting, Forging, Tools, Workshop Machinery, Manufacture of the Steam Engine, &c. By F. CAMPIN, C.E. 3*s.* cloth.

Works of Construction.

MATERIALS AND CONSTRUCTION: a Theoretical and Practical Treatise on the Strains, Designing, and Erection of Works of Construction. By F. CAMPIN, C.E. 12mo, 3*s.* 6*d.* cl. brds.

Iron Bridges, Girders, Roofs, &c.

A TREATISE ON THE APPLICATION OF IRON TO THE CONSTRUCTION OF BRIDGES, GIRDERS, ROOFS, AND OTHER WORKS. By F. CAMPIN, C.E. 12mo, 3*s.*

Digitized by Google

Bridge Construction in Masonry, Timber, & Iron.

EXAMPLES OF BRIDGE AND VIADUCT CONSTRUCTION IN MASONRY, TIMBER, AND IRON; consisting of 46 Plates from the Contract Drawings or Admeasurement of select Works. By W. DAVIS HASKOLL, C.E. Second Edition, with the addition of 554 Estimates, and the Practice of Setting out Works, with 6 pages of Diagrams. Imp. 4to, *2l.* 12*s.* 6*d.* half-morocco.

"A work of the present nature by a man of Mr. Haskoll's experience, must prove invaluable. The tables of estimates considerably enhance its value."—*Engineering.*

Oblique Bridges.

A PRACTICAL and THEORETICAL ESSAY on OBLIQUE BRIDGES, with 13 large Plates. By the late GEO. WATSON BUCK, M.I.C.E. Third Edition, revised by his Son, J. H. WATSON BUCK, M.I.C.E.; and with the addition of Description to Diagrams for Facilitating the Construction of Oblique Bridges, by W. H. BARLOW, M.I.C.E. Royal 8vo, 12*s.* cloth.

"The standard text book for all engineers regarding skew arches."—*Engineer.*

Oblique Arches.

A PRACTICAL TREATISE ON THE CONSTRUCTION of OBLIQUE ARCHES. By JOHN HART. 3rd Ed. Imp. 8vo, 8*s.* cloth.

Boiler Construction.

THE MECHANICAL ENGINEER'S OFFICE BOOK: Boiler Construction. By NELSON FOLEY, Cardiff, late Assistant Manager Palmer's Engine Works, Jarrow. With 29 full-page Lithographic Diagrams. Folio 21*s.* half-bound.

Locomotive-Engine Driving.

LOCOMOTIVE-ENGINE DRIVING; a Practical Manual for Engineers in charge of Locomotive Engines. By MICHAEL REYNOLDS, M.S.E. Fifth Edition. Comprising A KEY TO THE LOCOMOTIVE ENGINE. With Illustrations. Cr. 8vo, 4*s.* 6*d.* cl.

"Mr. Reynolds has supplied a want, and has supplied it well."—*Engineer.*

The Engineer, Fireman, and Engine-Boy.

THE MODEL LOCOMOTIVE ENGINEER, FIREMAN, AND ENGINE-BOY. By M. REYNOLDS. Crown 8vo, 4*s.* 6*d.*

Stationary Engine Driving.

STATIONARY ENGINE DRIVING. A Practical Manual for Engineers in Charge of Stationary Engines. By MICHAEL REYNOLDS. Second Edition, Revised and Enlarged. With Plates and Woodcuts. Crown 8vo, 4*s.* 6*d.* cloth.

Engine-Driving Life.

ENGINE-DRIVING LIFE; or Stirring Adventures and Incidents in the Lives of Locomotive Engine-Drivers. By MICHAEL REYNOLDS. Eighth Thousand. Crown 8vo, 2*s.* cloth.

Continuous Railway Brakes.

CONTINUOUS RAILWAY BRAKES. A Practical Treatise on the several Systems in Use in the United Kingdom; their Construction and Performance. With copious Illustrations and numerous Tables. By MICHAEL REYNOLDS. Large Crown 8vo, 9*s.* cloth.

Digitized by Google

Construction of Iron Beams, Pillars, &c.

IRON AND HEAT; exhibiting the Principles concerned in the construction of Iron Beams, Pillars, and Bridge Girders, and the Action of Heat in the Smelting Furnace. By J. ARMOUR, C.E. 3*s.*

Fire Engineering.

FIRES, FIRE-ENGINES, AND FIRE BRIGADES. With a History of Fire-Engines, their Construction, Use, and Management; Remarks on Fire-Proof Buildings, and the Preservation of Life from Fire; Statistics of the Fire Appliances in English Towns; Foreign Fire Systems; Hints on Fire Brigades, &c., &c. By CHARLES F. T. YOUNG, C.E. Demy 8vo, 1*l.* 4*s.* cloth.

Trigonometrical Surveying.

AN OUTLINE OF THE METHOD OF CONDUCTING A TRIGONOMETRICAL SURVEY, for the Formation of Geographical and Topographical Maps and Plans, Military Reconnaissance, Levelling, &c., with the most useful Problems in Geodesy and Practical Astronomy. By LIEUT.-GEN. FROME, R.E., late Inspector-General of Fortifications. Fourth Edition, Enlarged, and partly Re-written. By CAPTAIN CHARLES WARREN, R.E. With 19 Plates and 115 Woodcuts, royal 8vo, 16*s.* cloth.

Tables of Curves.

TABLES OF TANGENTIAL ANGLES and MULTIPLES for setting out Curves from 5 to 200 Radius. By ALEXANDER BEAZELEY, M. Inst. C.E. Second Edition. Printed on 48 Cards, and sold in a cloth box, waistcoat-pocket size, 3*s.* 6*d.*

"Each table is printed on a small card, which, being placed on the theodolite, leaves the hands free to manipulate the instrument."—*Engineer.*

"Very handy; a man may know that all his day's work must fall on two of these cards, which he puts into his own card-case, and leaves the rest behind."—[*Athenæum.*

Pioneer Engineering.

PIONEER ENGINEERING. A Treatise on the Engineering Operations connected with the Settlement of Waste Lands in New Countries. By EDWARD DOBSON, A.I.C.E. With Plates and Wood Engravings. Revised Edition. 12mo, 5*s.* cloth.

"A workmanlike production, and one without possession of which no man should start to encounter the duties of a pioneer engineer."—*Athenæum.*

Engineering Fieldwork.

THE PRACTICE OF ENGINEERING FIELDWORK, applied to Land and Hydraulic, Hydrographic, and Submarine Surveying and Levelling. Second Edition, revised, with considerable additions, and a Supplement on WATERWORKS, SEWERS, SEWAGE, and IRRIGATION. By W. DAVIS HASKOLL, C.E. Numerous folding Plates. In 1 Vol., demy 8vo, 1*l.* 5*s.*, cl. boards.

Large Tunnel Shafts.

THE CONSTRUCTION OF LARGE TUNNEL SHAFTS. By J. H. WATSON BUCK, M. Inst. C.E., &c. Illustrated with Folding Plates. Royal 8vo, 12*s.* cloth.

"Many of the methods given are of extreme practical value to the mason, and the observations on the form of arch, the rules for ordering the stone, and the construction of the templates, will be found of considerable use. We commend the book to the profession, and to all who have to build similar shafts."—*Building News.*

Digitized by Google

Survey Practice.

AID TO SURVEY PRACTICE: for Reference in Surveying, Levelling, Setting-out and in Route Surveys of Travellers by Land and Sea. With Tables, Illustrations, and Records. By LOWIS D'A. JACKSON, A.-M.I.C.E. Author of "Hydraulic Manual and Statistics," &c. Large crown 8vo, 12*s.* 6*d.*, cloth.

"Mr. Jackson has had much and varied experience in field work and some knowledge of bookmaking, and he has utilised both these acquirements with a very useful result. The volume covers the ground it occupies very thoroughly."—*Engineering.*

"A general text bookwas wanted, and we are able to speak with confidence of Mr. Jackson's treatise. . . . We cannot recommend to the student who knows something of the mathematical principles of the subject a better course than to fortify his practice in the field under a competent surveyor with a study of Mr. Jackson's useful manual. The field records illustrate every kind of survey, and will be found an essential aid to the student."—*Building News.*

Sanitary Work.

SANITARY WORK IN THE SMALLER TOWNS AND IN VILLAGES. Comprising:—1. Some of the more Common Forms of Nuisance and their Remedies; 2. Drainage; 3. Water Supply. By CHAS. SLAGG, Assoc. Inst. C.E. Second Edition, Revised and Enlarged. [*In the Press.*

"A very useful book, and may be safely recommended. The author has had practical experience in the works of which he treats."—*Builder.*

Gas and Gasworks.

THE CONSTRUCTION OF GASWORKS AND THE MANUFACTURE AND DISTRIBUTION OF COAL-GAS. Originally written by S. HUGHES, C.E. Sixth Edition. Re-written and enlarged, by W. RICHARDS, C.E. 12mo, 5*s.* cloth.

Waterworks for Cities and Towns.

WATERWORKS for the SUPPLY of CITIES and TOWNS, with a Description of the Principal Geological Formations of England as influencing Supplies of Water. By S. HUGHES. 4*s.* 6*d.* cloth.

Fuels and their Economy.

FUEL, its Combustion and Economy; consisting of an Abridgment of "A Treatise on the Combustion of Coal and the Prevention of Smoke." By C. W. WILLIAMS, A.I.C.E. With extensive additions on Recent Practice in the Combustion and Economy of Fuel—Coal, Coke, Wood, Peat, Petroleum, &c.; by D. KINNEAR CLARK, M. Inst. C.E. Second Edition, revised. With Illustrations. 12mo. 4*s.* cloth boards.

"Students should buy the book and read it, as one of the most complete and satisfactory treatises on the combustion and economy of fuel to be had."—*Engineer.*

Roads and Streets.

THE CONSTRUCTION OF ROADS AND STREETS. In Two Parts. I. The Art of Constructing Common Roads. By HENRY LAW, C.E. Revised and Condensed. II. Recent Practice in the Construction of Roads and Streets: including Pavements of Stone, Wood, and Asphalte. By D. KINNEAR CLARK, M. Inst. C.E. Second Edit., revised. 12mo, 5*s.* cloth.

"A book which every borough surveyor and engineer must possess, and of considerable service to architects, builders, and property owners."—*Building News.*

Digitized by Google

Locomotives.

LOCOMOTIVE ENGINES, A Rudimentary Treatise on. Comprising an Historical Sketch and Description of the Locomotive Engine. By G. D. DEMPSEY, C.E. With large additions treating of the MODERN LOCOMOTIVE, by D. KINNEAR CLARK, M. Inst. C.E. With Illustrations. 12mo. 3*s.* 6*d.* cloth boards.

"The student cannot fail to profit largely by adopting this as his preliminary text-book."—*Iron and Coal Trades Review.*

Field-Book for Engineers.

THE ENGINEER'S, MINING SURVEYOR'S, and CONTRACTOR'S FIELD-BOOK. By W. DAVIS HASKOLL, C.E. Consisting of a Series of Tables, with Rules, Explanations of Systems, and Use of Theodolite for Traverse Surveying and Plotting the Work with minute accuracy by means of Straight Edge and Set Square only; Levelling with the Theodolite, Casting out and Reducing Levels to Datum, and Plotting Sections in the ordinary manner; Setting out Curves with the Theodolite by Tangential Angles and Multiples with Right and Left-hand Readings of the Instrument; Setting out Curves without Theodolite on the System of Tangential Angles by Sets of Tangents and Offsets; and Earthwork Tables to 80 feet deep, calculated for every 6 inches in depth. With numerous Woodcuts. 4th Edition, enlarged. Cr. 8vo. 12*s.* cloth.

"The book is very handy, and the author might have added that the separate tables of sines and tangents to every minute will make it useful for many other purposes, the genuine traverse tables existing all the same."—*Athenæum.*

Earthwork, Measurement and Calculation of.

A MANUAL on EARTHWORK. By ALEX. J. S. GRAHAM, C.E. With numerous Diagrams. 18mo, 2*s.* 6*d.* cloth.

"As a really handy book for reference, we know of no work equal to it; and the railway engineers and others employed in the measurement and calculation of earthwork will find a great amount of practical information very admirably arranged, and available for general or rough estimates, as well as for the more exact calculations required in the engineers' contractor's offices."—*Artisan.*

Drawing for Engineers, &c.

THE WORKMAN'S MANUAL OF ENGINEERING DRAWING. By JOHN MAXTON, Instructor in Engineering Drawing, Royal Naval College, Greenwich, formerly of R. S. N. A., South Kensington. Fourth Edition, carefully revised. With upwards of 300 Plates and Diagrams. 12mo, cloth, strongly bound, 4*s.*

"A copy of it should be kept for reference in every drawing office."—*Engineering.*

"Indispensable for teachers of engineering drawing."—*Mechanics' Magazine.*

Weale's Dictionary of Terms.

A DICTIONARY of TERMS used in ARCHITECTURE, BUILDING, ENGINEERING, MINING, METALLURGY, ARCHÆOLOGY, the FINE ARTS, &c. By JOHN WEALE. Fifth Edition, revised by ROBERT HUNT, F.R.S., Keeper of Mining Records, Editor of "Ure's Dictionary of Arts." 12mo, 6*s.* cl. bds.

"The best small technological dictionary in the language."—*Architect.*

"The absolute accuracy of a work of this character can only be judged of after extensive consultation, and from our examination it appears very correct and very complete."—*Mining Journal.*

Digitized by Google

MINING, METALLURGY, ETC.

Metalliferous Mining.

BRITISH MINING. A Practical Treatise on the Metalliferous Mines and Minerals of the United Kingdom, dealing comprehensively with the Theories of Mineral Deposits, the History of Mines, their Practical Working, and the Future Prospects of British Mining Industry. Fully Illustrated. By ROBERT HUNT, F.R.S., Keeper of Mining Records; Editor of "Ure's Dictionary of Arts, Manufactures, and Mines," &c. [*In preparation.*

Coal and Iron.

THE COAL AND IRON INDUSTRIES OF THE UNITED KINGDOM: comprising a Description of the Coal Fields, and of the Principal Seams of Coal, with returns of their Produce and its Distribution, and Analyses of Special Varieties. Also, an Account of the occurrence of Iron Ores in Veins or Seams; Analyses of each Variety; and a History of the Rise and Progress of Pig Iron Manufacture since the year 1740, exhibiting the economies introduced in the Blast Furnaces for its Production and Improvement. By RICHARD MEADE, Assistant Keeper of Mining Records. With Maps of the Coal Fields and Ironstone Deposits of the United Kingdom. 8vo., £1 8*s.* cloth.

Metalliferous Minerals and Mining.

A TREATISE ON METALLIFEROUS MINERALS AND MINING. By D. C. DAVIES, F.G.S. With Numerous Wood Engravings. Second Edition, revised. Cr. 8vo, 12*s.* 6*d.* cloth.

"Without question, the most exhaustive and the most practically useful work we have seen; the amount of information given is enormous, and it is given concisely and intelligibly."—*Mining Journal.*

Slate and Slate Quarrying.

A TREATISE ON SLATE AND SLATE QUARRYING, Scientific, Practical, and Commercial. By D. C. DAVIES, F.G.S. Illustrated. Second Edition, revised. 3*s.* 6*d.* cloth.

Metallurgy of Iron.

A TREATISE ON THE METALLURGY OF IRON: containing Outlines of the History of Iron Manufacture, Methods of Assay, and Analyses of Iron Ores, Processes of Manufacture of Iron and Steel, &c. By H. BAUERMAN, F.G.S. Fifth Edition, Revised and Enlarged. Illustrated. 5*s.* 6*d.*, cloth.

Mining, Surveying and Valuing.

THE MINERAL SURVEYOR AND VALUER'S COMPLETE GUIDE, comprising a Treatise on Improved Mining Surveying, with new Traverse Tables; and Descriptions of Improved Instruments; also an Exposition of the Correct Principles of Laying out and Valuing Home and Foreign Iron and Coal Mineral Properties. By WILLIAM LINTERN, Mining and Civil Engineer. With four Plates of Diagrams, Plans, &c., 12mo, 4*s.* cloth.

*** Also, bound with THOMAN'S TABLES. 7*s.* 6*d.* (See page 20.)

Digitized by Google

Coal and Coal Mining.

COAL AND COAL MINING. By WARINGTON W. SMYTH, M.A., F.R.S., &c., Chief Inspector of the Mines of the Crown. Fifth edition, revised. 4*s*. cloth.

"Every portion of the volume appears to have been prepared with much care, and as an outline is given of every known coal-field in this and other countries, as well as of the two principal methods of working, the book will doubtless interest a very large number of readers."—*Mining Journal.*

Underground Pumping Machinery.

MINE DRAINAGE; being a Complete and Practical Treatise on Direct-Acting Underground Steam Pumping Machinery, with a Description of a large number of the best known Engines, their General Utility and the Special Sphere of their Action, the Mode of their Application, and their merits compared with other forms of Pumping Machinery. By STEPHEN MICHELL. 8vo, 15*s*. cloth.

Manual of Mining Tools.

MINING TOOLS. For the use of Mine Managers, Agents, Mining Students, &c. By WILLIAM MORGANS. Volume of Text. 12mo, 3*s*. With an Atlas of Plates, containing 235 Illustrations. 4to, 6*s*. Together, 9*s*. cloth boards.

NAVAL ARCHITECTURE, NAVIGATION, ETC.

Pocket Book for Naval Architects & Shipbuilders.

THE NAVAL ARCHITECT'S AND SHIPBUILDER'S POCKET BOOK OF FORMULÆ, RULES, AND TABLES AND MARINE ENGINEER'S AND SURVEYOR'S HANDY BOOK OF REFERENCE. By CLEMENT MACKROW, M. Inst. N. A., Naval Draughtsman. Second Edition, revised. With numerous Diagrams. Fcap., 12*s*. 6*d*., strongly bound in leather.

"Should be used by all who are engaged in the construction or design of vessels."—*Engineer.*

"Mr. Mackrow has compressed an extraordinary amount of information into this useful volume."—*Athenæum.*

Pocket-Book for Marine Engineers.

A POCKET-BOOK OF USEFUL TABLES AND FORMULÆ FOR MARINE ENGINEERS. By FRANK PROCTOR, A.I.N.A. Third Edition. Royal 32mo, leather, gilt edges, 4*s*.

"A most useful companion to all marine engineers."—*United Service Gazette.*

"Scarcely anything required by a naval engineer appears to have been forgotten."—*Iron.*

Grantham's Iron Ship-Building.

ON IRON SHIP-BUILDING; with Practical Examples and Details. By JOHN GRANTHAM, M. Inst. C.E., &c. Fifth Edition. Imp. 4to, boards, enlarged from 24 to 40 Plates, with separate Text, also enlarged, cloth limp. 2*l*. 2*s*. complete.

"Mr. Grantham's work is of great interest. It will, we are confident, command an extensive circulation among shipbuilders in general. By order of the Board of Admiralty, the work will form the text-book on which the examination in iron ship-building of candidates for promotion the in dockyards will be mainly based."—*Engineering.*

Digitized by Google

Light-Houses.

EUROPEAN LIGHT-HOUSE SYSTEMS; being a Report of a Tour of Inspection made in 1873. By Major GEORGE H. ELLIOT, Corps of Engineers, U.S.A. Illustrated by 51 Engravings and 31 Woodcuts in the Text. 8vo, 21*s.* cloth.

Surveying (Land and Marine).

LAND AND MARINE SURVEYING, in Reference to the Preparation of Plans for Roads and Railways, Canals, Rivers, Towns' Water Supplies, Docks and Harbours; with Description and Use of Surveying Instruments. By W. DAVIS HASKOLL, C.E. With 14 folding Plates, and numerous Woodcuts. 8vo, 12*s.* 6*d.* cloth.

Storms.

STORMS: their Nature, Classification, and Laws, with the Means of Predicting them by their Embodiments, the Clouds. By WILLIAM BLASIUS. Crown 8vo, 10*s.* 6*d.* cloth boards.

Rudimentary Navigation.

THE SAILOR'S SEA-BOOK: a Rudimentary Treatise on Navigation. By JAMES GREENWOOD, B.A. New and enlarged edition. By W. H. ROSSER. 12mo, 3*s.* cloth boards.

Mathematical and Nautical Tables.

MATHEMATICAL TABLES, for Trigonometrical, Astronomical, and Nautical Calculations; to which is prefixed a Treatise on Logarithms. By HENRY LAW, C.E. Together with a Series of Tables for Navigation and Nautical Astronomy. By Professor J. R. YOUNG. New Edition. 12mo, 4*s.* cloth boards.

Navigation (Practical), with Tables.

PRACTICAL NAVIGATION: consisting of the Sailor's Sea-Book, by JAMES GREENWOOD and W. H. ROSSER; together with the requisite Mathematical and Nautical Tables for the Working of the Problems. By HENRY LAW, C.E., and Professor J. R. YOUNG. Illustrated. 12mo, 7*s.* strongly half-bound in leather.

WEALE'S RUDIMENTARY SERIES.

The following books in Naval Architecture, etc., are published in the above series.

NAVIGATION AND NAUTICAL ASTRONOMY IN THEORY AND PRACTICE. By PROFESSOR J. R. YOUNG. New Edition. Including the Requisite Elements from the Nautical Almanac for Working the Problems. 12mo, 2*s.* 6*d.* cloth.

MASTING, MAST-MAKING, AND RIGGING OF SHIPS. By ROBERT KIPPING, N.A. Fifteenth Edition. 12mo, 2*s.* 6*d.* cloth.

SAILS AND SAIL-MAKING. Tenth Edition, enlarged. By ROBERT KIPPING, N.A. Illustrated. 12mo, 3*s.* cloth boards.

NAVAL ARCHITECTURE. By JAMES PEAKE. Fourth Edition, with Plates and Diagrams. 12mo, 4*s.* cloth boards.

MARINE ENGINES, AND STEAM VESSELS. By ROBERT MURRAY, C.E. Eighth Edition, Re-written by H. S. BARRON, Assoc.-Memb. Inst. C.E. [*In preparation.*

Digitized by Google

ARCHITECTURE, BUILDING, ETC.

Construction.

THE SCIENCE of BUILDING: An Elementary Treatise on the Principles of Construction. By E. WYNDHAM TARN, M.A., Architect. With 58 Wood Engravings. Second Edition, revised and enlarged, including an entirely new chapter on the Nature of Lightning, and the Means of Protecting Buildings from its Violence. Crown 8vo, 7*s.* 6*d.* cloth.

"A very valuable book, which we strongly recommend to all students."—*Builder.*
"No architectural student should be without this hand-book."—*Architect.*

Civil and Ecclesiastical Building.

A BOOK ON BUILDING, CIVIL AND ECCLESIASTICAL, Including CHURCH RESTORATION. By Sir EDMUND BECKETT, Bart., LL.D., Q.C., F.R.A.S. Author of "Clocks and Watches and Bells," &c. 12mo, 5*s.* cloth boards.

"A book which is always amusing and nearly always instructive. We are able very cordially to recommend all persons to read it for themselves."—*Times.*
"We commend the book to the thoughtful consideration of all who are interested in the building art."—*Builder.*

Villa Architecture.

A HANDY BOOK of VILLA ARCHITECTURE; being a Series of Designs for Villa Residences in various Styles. With Detailed Specifications and Estimates. By C. WICKES, Architect, Author of "The Spires and Towers of the Mediæval Churches of England," &c. 30 Plates, 4to, half morocco, gilt edges, 1*l.* 1*s.*

*** Also an Enlarged edition of the above. 61 Plates, with Detailed Specifications, Estimates, &c. 2*l.* 2*s.* half morocco.

Useful Text-Book for Architects.

THE ARCHITECT'S GUIDE: Being a Text-book of Useful Information for Architects, Engineers, Surveyors, Contractors, Clerks of Works, &c. By F. ROGERS. Cr. 8vo, 6*s.* cloth.

"As a text-book of useful information for architects, engineers, surveyors, &c., it would be hard to find a handier or more complete little volume."—*Standard.*

The Young Architect's Book.

HINTS TO YOUNG ARCHITECTS. By G. WIGHTWICK. New Edition. By G. H. GUILLAUME. 12mo, cloth, 4*s.*

"Will be found an acquisition to pupils, and a copy ought to be considered as necessary a purchase as a box of instruments."—*Architect.*

Drawing for Builders and Students.

PRACTICAL RULES ON DRAWING for the OPERATIVE BUILDER and YOUNG STUDENT in ARCHITECTURE. By GEORGE PYNE. With 14 Plates, 4to, 7*s.* 6*d.* boards.

Boiler and Factory Chimneys.

BOILER AND FACTORY CHIMNEYS; their Draught-power and Stability, with a chapter on Lightning Conductors. By ROBERT WILSON, C.E. Crown 8vo, 3*s.* 6*d.* cloth.

Digitized by Google

Taylor and Cresy's Rome.

THE ARCHITECTURAL ANTIQUITIES OF ROME. By the late G. L. TAYLOR, Esq., F.S.A., and EDWARD CRESY, Esq. New Edition, Edited by the Rev. ALEXANDER TAYLOR, M.A. (son of the late G. L. Taylor, Esq.) This is the only book which gives on a large scale, and with the precision of architectural measurement, the principal Monuments of Ancient Rome in plan, elevation, and detail. Large folio, with 130 Plates, half-bound, 3*l.* 3*s.*

*** Originally published in two volumes, folio, at 18*l.* 18*s.*

Vitruvius' Architecture.

THE ARCHITECTURE OF MARCUS VITRUVIUS POLLIO. Translated by JOSEPH GWILT, F.S.A., F.R.A.S. Numerous Plates. 12mo, cloth limp, 5*s.*

Ancient Architecture.

RUDIMENTARY ARCHITECTURE (ANCIENT); comprising VITRUVIUS, translated by JOSEPH GWILT, F.S.A., &c., with 23 fine plates; and GRECIAN ARCHITECTURE. By the EARL of ABERDEEN; 12mo, 6*s.*, half-bound.

*** *The only edition of VITRUVIUS procurable at a moderate price.*

Modern Architecture.

RUDIMENTARY ARCHITECTURE (MODERN); comprising THE ORDERS OF ARCHITECTURE. By W. H. LEEDS, Esq.; The STYLES of ARCHITECTURE of VARIOUS COUNTRIES. By T. TALBOT BURY; and The PRINCIPLES of DESIGN in ARCHITECTURE. By E. L. GARBETT. Numerous illustrations, 12mo, 6*s.* half-bound.

Civil Architecture.

A TREATISE on THE DECORATIVE PART of CIVIL ARCHITECTURE. By Sir WILLIAM CHAMBERS, F.R.S. With Illustrations, Notes, and an Examination of Grecian Architecture. By JOSEPH GWILT, F.S.A. Revised and edited by W. H. LEEDS. 66 Plates, 4to, 21*s.* cloth.

House Painting.

HOUSE PAINTING, GRAINING, MARBLING, AND SIGN WRITING: a Practical Manual of. With 9 Coloured Plates of Woods and Marbles, and nearly 150 Wood Engravings. By ELLIS A. DAVIDSON. Third Edition, Revised. 12mo, 6*s.* cloth.

Plumbing.

PLUMBING; a Text-book to the Practice of the Art or Craft of the Plumber. With chapters upon House-drainage, embodying the latest Improvements. By W. P. BUCHAN, Sanitary Engineer. Fourth Edition, Revised and Enlarged, with above 330 illustrations. 12mo. 4*s.* cloth. [*Just published.*

Joints used in Building, Engineering, &c.

THE JOINTS MADE AND USED BY BUILDERS in the construction of various kinds of Engineering and Architectural works, with especial reference to those wrought by artificers in erecting and finishing Habitable Structures. By W. J. CHRISTY, Architect. With 160 Illustrations. 12mo, 3*s.* 6*d.* cloth boards.

Digitized by Google

Handbook of Specifications.

THE HANDBOOK OF SPECIFICATIONS; or, Practical Guide to the Architect, Engineer, Surveyor, and Builder, in drawing up Specifications and Contracts for Works and Constructions. Illustrated by Precedents of Buildings actually executed by eminent Architects and Engineers. By Professor THOMAS L. DONALDSON, M.I.B.A. New Edition, in One large volume, 8vo, with upwards of 1000 pages of text, and 33 Plates, cloth, 1*l.* 11*s.* 6*d.*

"In this work forty-four specifications of executed works are given. . . . Donaldson's Handbook of Specifications must be bought by all architects."—*Builder.*

Specifications for Practical Architecture.

SPECIFICATIONS FOR PRACTICAL ARCHITECTURE: A Guide to the Architect, Engineer, Surveyor, and Builder; with an Essay on the Structure and Science of Modern Buildings. By FREDERICK ROGERS, Architect. 8vo, 15*s.* cloth.

*** A volume of specifications of a practical character being greatly required, and the old standard work of Alfred Bartholomew being out of print, the author, on the basis of that work, has produced the above.—*Extract from Preface.*

Designing, Measuring, and Valuing.

THE STUDENT'S GUIDE to the PRACTICE of MEASURING and VALUING ARTIFICERS' WORKS; containing Directions for taking Dimensions, Abstracting the same, and bringing the Quantities into Bill, with Tables of Constants, and copious Memoranda for the Valuation of Labour and Materials in the respective Trades of Bricklayer and Slater, Carpenter and Joiner, Painter and Glazier, Paperhanger, &c. With 9 Plates and 47 Woodcuts. Originally edited by EDWARD DOBSON, Architect. New Edition, re-written, with Additions on Mensuration and Construction, and useful Tables for facilitating Calculations and Measurements. By E. WYNDHAM TARN, M.A., 8vo, 10*s.* 6*d.* cloth.

"Well fulfils the promise of its title-page. Mr. Tarn's additions and revisions have much increased the usefulness of the work."—*Engineering.*

Beaton's Pocket Estimator.

THE POCKET ESTIMATOR FOR THE BUILDING TRADES, being an easy method of estimating the various parts of a Building collectively, more especially applied to Carpenters' and Joiners' work. By A. C. BEATON. Second Edition. Waistcoat-pocket size. 1*s.* 6*d.*

Beaton's Builders' and Surveyors' Technical Guide.

THE POCKET TECHNICAL GUIDE AND MEASURER FOR BUILDERS AND SURVEYORS: containing a Complete Explanation of the Terms used in Building Construction, Memoranda for Reference, Technical Directions for Measuring Work in all the Building Trades, &c. By A. C. BEATON. 1*s.* 6*d.*

The House-Owner's Estimator.

THE HOUSE-OWNER'S ESTIMATOR; or, What will it Cost to Build, Alter, or Repair? A Price-Book for Unprofessional People, Architectural Surveyors, Builders, &c. By the late JAMES D. SIMON. Edited by F. T. W. MILLER, A.R.I.B.A. Third Edition, Revised. Crown 8vo, 3*s.* 6*d.*, cloth.

"In two years it will repay its cost a hundred times over."—*Field.*

Digitized by Google

Cement.

PORTLAND CEMENT FOR USERS. By HENRY FAIJA, A.M. Inst. C.E., with Illustrations. Crown 8vo. 3*s.* 6*d.* cloth.

"A useful compendium of results for the builder and architect."—*Building News.*

Builder's and Contractor's Price Book.

LOCKWOOD & CO.'S BUILDER'S AND CONTRACTOR'S PRICE BOOK, containing the latest prices of all kinds of Builders' Materials and Labour, &c. Revised by F. T. W. MILLER, A.R.I.B.A. Half-bound, 4*s.*

CARPENTRY, TIMBER, ETC.

Tredgold's Carpentry, new and cheaper Edition.

THE ELEMENTARY PRINCIPLES OF CARPENTRY: a Treatise on the Pressure and Equilibrium of Timber Framing, the Resistance of Timber, and the Construction of Floors, Arches, Bridges, Roofs, Uniting Iron and Stone with Timber, &c. To which is added an Essay on the Nature and Properties of Timber, &c., with Descriptions of the Kinds of Wood used in Building; also numerous Tables of the Scantlings of Timber for different purposes, the Specific Gravities of Materials, &c. By THOMAS TREDGOLD, C.E. Edited by PETER BARLOW, F.R.S. Fifth Edition, corrected and enlarged. With 64 Plates, Portrait of the Author, and Woodcuts. 4to, published at 2*l.* 2*s.*, reduced to 1*l.* 5*s.* cloth.

"A work whose monumental excellence must commend it wherever skilful carpentry is concerned. The Author's principles are rather confirmed than impaired by time. The additional plates are of great intrinsic value."—*Building News.*

Grandy's Timber Tables.

THE TIMBER IMPORTER'S, TIMBER MERCHANT'S, & BUILDER'S STANDARD GUIDE. By R. E. GRANDY. 2nd Edition. Carefully revised and corrected. 12mo, 3*s.* 6*d.* cloth.

"Everything it pretends to be: built up gradually, it leads one from a forest to a treenail, and throws in, as a makeweight, a host of material concerning bricks, columns, cisterns, &c.—all that the class to whom it appeals requires."—*English Mechanic.*

Timber Freight Book.

THE TIMBER IMPORTERS' AND SHIPOWNERS' FREIGHT BOOK: Being a Comprehensive Series of Tables for the Use of Timber Importers, Captains of Ships, Shipbrokers, Builders, and Others. By W. RICHARDSON. Crown 8vo, 6*s.*

Tables for Packing-Case Makers.

PACKING-CASE TABLES; showing the number of Superficial Feet in Boxes or Packing-Cases, from six inches square and upwards. By W. RICHARDSON. Oblong 4to, 3*s.* 6*d.* cloth.

"Invaluable labour-saving tables."—*Ironmonger.*

Carriage Building, &c.

COACH BUILDING: A Practical Treatise, Historical and Descriptive, containing full information of the various Trades and Processes involved, with Hints on the proper keeping of Carriages, &c. 57 Illustrations. By JAMES W. BURGESS. 12mo, 3*s.* cloth.

Digitized by Google

Horton's Measurer.

THE COMPLETE MEASURER; setting forth the Measurement of Boards, Glass, &c.; Unequal-sided, Square-sided, Octagonal-sided, Round Timber and Stone, and Standing Timber. Also a Table showing the solidity of hewn or eight-sided timber, or of any octagonal-sided column. By RICHARD HORTON. Fourth Edit. With Additions, 12mo, strongly bound in leather, 5*s.*

Horton's Underwood and Woodland Tables.

TABLES FOR PLANTING AND VALUING UNDERWOOD AND WOODLAND; also Lineal, Superficial, Cubical, and Decimal Tables, &c. By R. HORTON. 12mo, 2*s.* leather.

Nicholson's Carpenter's Guide.

THE CARPENTER'S NEW GUIDE; or, BOOK of LINES for CARPENTERS: comprising all the Elementary Principles essential for acquiring a knowledge of Carpentry. Founded on the late PETER NICHOLSON'S standard work. A new Edition, revised by ARTHUR ASHPITEL, F.S.A., together with Practical Rules on Drawing, by GEORGE PYNE. With 74 Plates, 4to, 1*l.* 1*s.* cloth.

Dowsing's Timber Merchant's Companion.

THE TIMBER MERCHANT'S AND BUILDER'S COMPANION; containing New and Copious Tables of the Reduced Weight and Measurement of Deals and Battens, of all sizes, from One to a Thousand Pieces, also the relative Price that each size bears per Lineal Foot to any given Price per Petersburgh Standard Hundred, &c., &c. Also a variety of other valuable information. By W. DOWSING. Third Edition. Crown 8vo, 3*s.*

Practical Timber Merchant.

THE PRACTICAL TIMBER MERCHANT, being a Guide for the use of Building Contractors, Surveyors, Builders, &c., comprising useful Tables for all purposes connected with the Timber Trade, Essay on the Strength of Timber, Remarks on the Growth of Timber, &c. By W. RICHARDSON. Fcap. 8vo, 3*s.* 6*d.* cl.

Woodworking Machinery.

WOODWORKING MACHINERY; its Rise, Progress, and Construction. With Hints on the Management of Saw Mills and the Economical Conversion of Timber. Illustrated with Examples of Recent Designs by leading English, French, and American Engineers. By M. POWIS BALE, M.I.M.E. Crown 8vo, 12*s.* 6*d.* cl.

"Mr. Bale is evidently an expert on the subject, and he has collected so much information that his book is all-sufficient for builders and others engaged in the conversion of timber."—*Architect.*

"The most comprehensive compendium of wood-working machinery we have seen. The author is a thorough master of his subject."—*Building News.*

Saw Mills.

SAW MILLS, THEIR ARRANGEMENT AND MANAGEMENT, AND THE ECONOMICAL CONVERSION OF TIMBER. (Being a Companion Volume to "Woodworking Machinery.") By M. POWIS BALE, M.I.M.E. With numerous Illustrations. Crown 8vo, 10*s.* 6*d.*, cloth. [*Just published.*

Digitized by Google

MECHANICS, ETC.

Turning.

LATHE-WORK: a Practical Treatise on the Tools, Appliances, and Processes employed in the Art of Turning. By PAUL N. HASLUCK. Second Edition, thoroughly Revised, with a New Chapter on the Screw-cutting Lathe. Crown 8vo, 5*s.* [*Just published.*

Turning.

THE METAL TURNER'S HANDBOOK: A Practical Manual for Workers at the Foot-lathe. By PAUL N. HASLUCK. With over 100 Illustrations. Crown 8vo, 1*s.*, cloth.

*** *The above forms the first volume of* HUSLUCK'S HANDBOOKS ON HANDICRAFTS. *Other Volumes in preparation.*

Mechanic's Workshop Companion.

THE OPERATIVE MECHANIC'S WORKSHOP COMPANION, and THE SCIENTIFIC GENTLEMAN'S PRACTICAL ASSISTANT. By W. TEMPLETON. 13th Edit., with Mechanical Tables for Operative Smiths, Millwrights, Engineers, &c.; and an Extensive Table of Powers and Roots, 12mo, 5*s.* bound.

"Admirably adapted to the wants of a very large class. It has met with great success in the engineering workshop, as we can testify; and there are a great many men who, in a great measure, owe their rise in life to this little work."—*Building News.*

Engineer's and Machinist's Assistant.

THE ENGINEER'S, MILLWRIGHT'S, and MACHINIST'S PRACTICAL ASSISTANT; comprising a Collection of Useful Tables, Rules, and Data. By WM. TEMPLETON. 18mo, 2*s.* 6*d.*

Smith's Tables for Mechanics, &c.

TABLES, MEMORANDA, and CALCULATED RESULTS, FOR MECHANICS, ENGINEERS, ARCHITECTS, BUILDERS, &c. Selected and Arranged by FRANCIS SMITH. 240pp. Waistcoat-pocket size, 1*s.* 6*d.*, limp leather. [*Just published.*

Boiler Making.

THE BOILER-MAKER'S READY RECKONER. With Examples of Practical Geometry and Templating, for the use of Platers, Smiths, and Riveters. By JOHN COURTNEY, Edited by D. K. CLARK, M. I. C.E. 12mo, 9*s.* half-bd.

Superficial Measurement.

THE TRADESMAN'S GUIDE TO SUPERFICIAL MEASUREMENT. Tables calculated from 1 to 200 inches in length, by 1 to 108 inches in breadth. By J. HAWKINGS. Fcp. 3*s.* 6*d.* cl.

The High-Pressure Steam Engine.

THE HIGH-PRESSURE STEAM ENGINE. By Dr. ERNST ALBAN. Translated from the German, with Notes, by Dr. POLE, F.R.S. Plates. 8vo, 16*s.* 6*d.*, cloth.

Steam Boilers.

A TREATISE ON STEAM BOILERS: their Strength, Construction, and Economical Working. By R. WILSON, C.E. Fifth Edition. 12mo, 6*s.* cloth.

"The best treatise that has ever been published on steam boilers."—*Engineer.*

Digitized by Google

MATHEMATICS, TABLES, ETC.

Metrical Units and Systems, &c.

MODERN METROLOGY: A Manual of the Metrical Units and Systems of the present Century. With an Appendix containing a proposed English System. By LOWIS D'A. JACKSON, A.-M. Inst. C.E., Author of "Aid to Survey Practice," &c. Large Crown 8vo, 12*s.* 6*d.* cloth.

Gregory's Practical Mathematics.

MATHEMATICS for PRACTICAL MEN; being a Commonplace Book of Pure and Mixed Mathematics. Designed chiefly for the Use of Civil Engineers, Architects, and Surveyors. Part I. PURE MATHEMATICS—comprising Arithmetic, Algebra, Geometry, Mensuration, Trigonometry, Conic Sections, Properties of Curves. Part II. MIXED MATHEMATICS—comprising Mechanics in general, Statics, Dynamics, Hydrostatics, Hydrodynamics, Pneumatics, Mechanical Agents, Strength of Materials, &c. By OLINTHUS GREGORY, LL.D., F.R.A.S. Enlarged by H. LAW, C.E. 4th Edition, revised by Prof. J. R. YOUNG. With 13 Plates. 8vo, 1*l.* 1*s.* cloth.

Mathematics as applied to the Constructive Arts.

A TREATISE ON MATHEMATICS AS APPLIED TO THE CONSTRUCTIVE ARTS. Illustrating the various processes of Mathematical Investigation by means of Arithmetical and simple Algebraical Equations and Practical Examples, &c. By FRANCIS CAMPIN, C.E. 12mo, 3*s.* 6*d.* cloth.

Geometry for the Architect, Engineer, &c.

PRACTICAL GEOMETRY, for the Architect, Engineer, and Mechanic. By E. W. TARN, M.A. With Appendices on Diagrams of Strains and Isometrical projection. Demy 8vo, 9*s.* cloth.

Practical Geometry.

THE GEOMETRY OF COMPASSES, or Problems Resolved by the Mere Description of Circles, and the Use of Coloured Diagrams and Symbols. By OLIVER BYRNE. Coloured Plates. Crown 8vo, 3*s.* 6*d.*, cloth.

The Metric System.

A SERIES OF METRIC TABLES, in which the British Standard Measures and Weights are compared with those of the Metric System at present in use on the Continent. By C. H. DOWLING, C.E. 2nd Edit., revised and enlarged. 8vo, 10*s.* 6*d.* cl.

Inwood's Tables, greatly enlarged and improved.

TABLES FOR THE PURCHASING of ESTATES, Freehold, Copyhold, or Leasehold; Annuities, Advowsons, &c., and for the Renewing of Leases; also for Valuing Reversionary Estates, Deferred Annuities, &c. By WILLIAM INWOOD. 21st edition, with Tables of Logarithms for the more Difficult Computations of the Interest of Money, &c. By M. FÉDOR THOMAN. 12mo. 8*s.* cloth.

"Those interested in the purchase and sale of estates, and in the adjustment of compensation cases, as well as in transactions in annuities, life insurances, &c., will find the present edition of eminent service."—*Engineering.*

Digitized by Google

Weights, Measures, Moneys, &c.

MEASURES, WEIGHTS, and MONEYS of all NATIONS. Entirely New Edition, Revised and Enlarged. By W. S. B. WOOLHOUSE, F.R.A.S. 12mo, 2*s.* 6*d.* cloth boards.

Compound Interest and Annuities.

THEORY of COMPOUND INTEREST and ANNUITIES; with Tables of Logarithms for the more Difficult Computations of Interest, Discount, Annuities, &c., in all their Applications and Uses for Mercantile and State Purposes. By FÉDOR THOMAN, of the Société Crédit Mobilier, Paris. 3rd Edit., 12mo, 4*s.* 6*d.* cl.

Iron and Metal Trades' Calculator.

THE IRON AND METAL TRADES' COMPANION: Being a Calculator containing a Series of Tables upon a new and comprehensive plan for expeditiously ascertaining the value of any goods bought or sold by weight, from 1*s.* per cwt. to 112*s.* per cwt., and from one farthing per lb. to 1*s.* per lb. Each Table extends from one lb. to 100 tons. By T. DOWNIE. 396 pp., 9*s.*, leather.

Iron and Steel.

IRON AND STEEL: a Work for the Forge, Foundry, Factory, and Office. Containing Information for Ironmasters; Civil, Mechanical, and Mining Engineers; Architects, Builders, &c. By CHARLES HOARE. Eighth Edit. Oblong 32mo, 6*s.*, leather.

Comprehensive Weight Calculator.

THE WEIGHT CALCULATOR, being a Series of Tables upon a New and Comprehensive Plan, exhibiting at one Reference the exact Value of any Weight from 1lb. to 15 tons, at 300 Progressive Rates, from 1 Penny to 168 Shillings per cwt., and containing 186,000 Direct Answers, which, with their Combinations, consisting of a single addition, will afford an aggregate of 10,266,000 Answers; the whole being calculated and designed to ensure Correctness and promote Despatch. By HENRY HARBEN, Accountant. New Edition. Royal 8vo, 1*l.* 5*s.*, half-bound.

Comprehensive Discount Guide.

THE DISCOUNT GUIDE: comprising Tables for the use of Merchants, Manufacturers, Ironmongers, and others, by which may be ascertained the exact profit arising from any mode of using Discounts, either in the Purchase or Sale of Goods, and the method of either Altering a Rate of Discount, or Advancing a Price, so as to produce, by one operation, a sum that will realise any required profit after allowing one or more Discounts: to which are added Tables of Profit or Advance from 1¼ to 90 per cent., Tables of Discount from 1¼ to 98¾ per cent., and Tables of Commission, &c., from ⅛ to 10 per cent. By H. HARBEN, 8vo, 1*l.* 5*s.*, half-bound.

Mathematical Instruments.

MATHEMATICAL INSTRUMENTS: Their Construction, Adjustment, Testing, and Use; comprising Drawing, Measuring, Optical, Surveying, and Astronomical Instruments. By J. F. HEATHER, M.A. Enlarged Edition. 12mo, 5*s.* cloth.

Digitized by Google

SCIENCE AND ART.

Gold and Gold-Working.

THE GOLDSMITH'S HANDBOOK: containing full instructions for the Alloying and Working of Gold. Including the Art of Alloying, Melting, Reducing, Colouring, Collecting and Refining. Chemical and Physical Properties of Gold, with a new System of Mixing its Alloys; Solders, Enamels, &c. By GEORGE E. GEE. Second Edition, enlarged. 12mo, 3*s.* 6*d.* cloth.

"The best work yet printed on its subject for a reasonable price."—*Jeweller.*

"Essentially a practical manual, well adapted to the wants of amateurs and apprentices, containing trustworthy information that only a practical man can supply."—*English Mechanic.*

Silver and Silver Working.

THE SILVERSMITH'S HANDBOOK, containing full Instructions for the Alloying and Working of Silver. Including the different Modes of Refining and Melting the Metal, its Solders, the Preparation of Imitation Alloys, &c. By G. E. GEE. 12mo, 3*s.* 6*d.*

"The chief merit of the work is its practical character. The workers in the trade will speedily discover its merits when they sit down to study it."—*English Mechanic.*

Hall-Marking of Jewellery.

THE HALL-MARKING OF JEWELLERY PRACTICALLY CONSIDERED, comprising an account of all the different Assay Towns of the United Kingdom; with the Stamps at present employed; also the Laws relating to the Standards and Hall-Marks at the various Assay Offices; and a variety of Practical Suggestions concerning the Mixing of Standard Alloys, &c. By GEORGE E. GEE. Crown 8vo, 5*s.* cloth. [*Just published.*

Electro-Plating, &c.

ELECTROPLATING: A Practical Handbook. By J. W. URQUHART, C.E. Crown 8vo, 5*s.* cloth.

"Any ordinarily intelligent person may become an adept in electro-deposition with a very little science indeed, and this is the book to show the way."—*Builder.*

Electrotyping, &c.

ELECTROTYPING: A Practical Manual on the Reproduction and Multiplication of Printing Surfaces and Works of Art by the Electro-deposition of Metals. By J. W. URQUHART, C.E. Crown 8vo, 5*s.* cloth.

"A guide to beginners and those who practise the old and imperfect methods."—*Iron.*

Electro-Plating.

ELECTRO-METALLURGY PRACTICALLY TREATED. BY ALEXANDER WATT, F.R.S.S.A. Including the Electro-Deposition of Copper, Silver, Gold, Brass and Bronze, Platinum, Lead, Nickel, Tin, Zinc, Alloys of Metals, Practical Notes, &c., &c. Eighth Edition, Revised, with Additional matter and Illustrations, including the most recent Processes. 12mo, 3*s.* 6*d.*, cloth. [*Just published.*

"From this book both amateur and artisan may learn everything necessary for the successful prosecution of electroplating."—*Iron.*

"A practical treatise for the use of those who desire to work in the art of electro-dep osition as a business."—*English Mechanic.*

Digitized by Google

Dentistry.

MECHANICAL DENTISTRY. A Practical Treatise on the Construction of the various kinds of Artificial Dentures. Comprising also Useful Formulæ, Tables, and Receipts for Gold Plate, Clasps, Solders, etc., etc. By CHARLES HUNTER. Second Edition, Revised; including a new chapter on the use of Celluloid. With over 100 Engravings. Crown 8vo, 7*s.* 6*d.*, cloth.

"An authoritative treatise, which we can strongly recommend to all students."—*Dublin Journal of Medical Science.*

Electricity.

A MANUAL of ELECTRICITY; including Galvanism, Magnetism, Diamagnetism, Electro-Dynamics, Magneto-Electricity, and the Electric Telegraph. By HENRY M. NOAD, Ph.D., F.C.S. Fourth Edition, with 500 Woodcuts. 8vo, 1*l.* 4*s.* cloth.

"The accounts given of electricity and galvanism are not only complete in a scientific sense, but, which is a rarer thing, are popular and interesting."—*Lancet.*

Text-Book of Electricity.

THE STUDENT'S TEXT-BOOK OF ELECTRICITY. By HENRY M. NOAD, Ph.D., F.R.S., &c. New Edition, Revised. With an Introduction and Additional Chapters by W. H. PREECE, M.I.C.E., Vice-President of the Society of Telegraph Engineers, &c. With 470 Illustrations. Crown 8vo, 12*s.* 6*d.* cloth.

"A reflex of the existing state of Electrical Science adapted for students."—W. H. Preece, Esq., vide "Introduction."

"We can recommend Dr. Noad's book for clear style, great range of subject, a good index, and a plethora of woodcuts. Such collections as the present are indispensable."—*Athenæum.*

"An admirable text-book for every student—beginner or advanced—of electricity."—*Engineering.*

"Recommended to students as one of the best text-books on the subject that they can have. Mr. Preece appears to have introduced all the newest inventions in the shape of telegraphic, telephonic, and electric-lighting apparatus."—*English Mechanic.*

"Under the editorial hand of Mr. Preece the late Dr. Noad's text-book of electricity has grown into an admirable handbook."—*Westminster Review.*

Electric Lighting.

ELECTRIC LIGHT: Its Production and Use, embodying plain Directions for the Treatment of Voltaic Batteries, Electric Lamps, and Dynamo-Electric Machines. By J. W. URQUHART, C.E., Author of "Electroplating." Edited by F. C. WEBB, M.I.C.E., M.S.T.E. 2nd Edition, Carefully Revised, with Large Additions and 128 Illustrations. Cr. 8vo, 7*s.* 6*d.* cloth. [*Just published.*

"The book is by far the best that we have yet met with on the subject."—*Athenæum.*

"An important addition to the literature of the electric light. Students of the subject should not fail to read it."—*Colliery Guardian.*

Lightning, &c.

THE ACTION of LIGHTNING, and the MEANS of DEFENDING LIFE AND PROPERTY FROM ITS EFFECTS. By Major ARTHUR PARNELL, R.E. 12mo, 7*s.* 6*d.* cloth.

"Major Parnell has written an original work on a scientific subject of unusual interest; and he has prefaced his arguments by a patient and almost exhaustive citation of the best writers on the subject in the English language."—*Athenæum.*

"The work comprises all that is actually known on the subject."—*Land.*

"Major Parnell's measures are based on the results of experience. A valuable *repertoire* of facts and principles arranged in a scientific form."—*Building News.*

Digitized by Google

The Alkali Trade—Sulphuric Acid, &c.

A MANUAL OF THE ALKALI TRADE, including the Manufacture of Sulphuric Acid, Sulphate of Soda, and Bleaching Powder. By JOHN LOMAS, Alkali Manufacturer. With 232 Illustrations and Working Drawings, and containing 386 pages of text. Super-royal 8vo, 2*l.* 12*s.* 6*d.* cloth.

This work provides (1) *a Complete Handbook for intending Alkali and Sulphuric Acid Manufacturers, and for those already in the field who desire to improve their plant, or to become practically acquainted with the latest processes and developments of the trade;* (2) *a Handy Volume which Manufacturers can put into the hands of their Managers and Foremen as a useful guide in their daily rounds of duty.*

SYNOPSIS OF CONTENTS.

Chap. I. Choice of Site and General Plan of Works—II. Sulphuric Acid—III. Recovery of the Nitrogen Compounds, and Treatment of Small Pyrites—IV. The Salt Cake Process—V. Legislation upon the Noxious Vapours Question—VI. The Hargreaves' and Jones' Processes—VII. The Balling Process—VIII. Lixiviation and Salting Down—IX. Carbonating or Finishing—X. Sod Crystals—XI. Refined Alkali—XII. Caustic Soda—XIII. Bi-carbonate of Soda—XIV. Bleaching Powder—XV. Utilisation of Tank Waste—XVI. General Remarks—Four Appendices, treating of Yields, Sulphuric Acid Calculations, Anemometers, and Foreign Legislation upon the Noxious Vapours Question.

"The author has given the fullest, most practical, and, to all concerned in the alkali trade, most valuable mass of information that, to our knowledge, has been published in any language."—*Engineer.*

"This book is written by a manufacturer for manufacturers. The working details of the most approved forms of apparatus are given, and these are accompanied by no less than 232 wood engravings, all of which may be used for the purposes of construction. Every step in the manufacture is very fully described in this manual, and each improvement explained. Everything which tends to introduce economy into the technical details of this trade receives the fullest attention."—*Athenæum.*

"The author is not one of those clever compilers who, on short notice, will 'read up' any conceivable subject, but a practical man in the best sense of the word. We find here not merely a sound and luminous explanation of the chemical principles of the trade, but a notice of numerous matters which have a most important bearing on the successful conduct of alkali works, but which are generally overlooked by even the most experienced technological authors."—*Chemical Review.*

Soapmaking.

A HANDBOOK OF THE ART OF SOAPMAKING, including the Manufacture of Hard and Soft Soaps, Toilet Soaps, Medicated and Special Soaps, Bleaching and Purifying Oils and Fats, Recovery of Glycerine, &c. With a Series of Engravings. By ALEXANDER WATT, Author of "Electro-Metallurgy Practically Considered," &c. 8vo. [*In the Press.*

Chemical Analysis.

THE COMMERCIAL HANDBOOK of CHEMICAL ANALYSIS; or Practical Instructions for the determination of the Intrinsic or Commercial Value of Substances used in Manufactures, in Trades, and in the Arts. By A. NORMANDY. *New Edition.* Enlarged, and to a great extent re-written, by HENRY M. NOAD, Ph. D., F.R.S. With numerous Illustrations. Cr. 8vo, 12*s.* 6*d.* cloth.

"We recommend this book to the careful perusal of every one; it may be truly affirmed to be of universal interest, and we strongly recommend it as a guide, alike indispensable to the housewife as to the pharmaceutical practitioner."—*Medical Times.*

"Essential to the analysts appointed under the new Act. The most recent results are given, and the work is well edited and carefully written."—*Nature.*

Digitized by Google

Dr. Lardner's Museum of Science and Art.

THE MUSEUM OF SCIENCE AND ART. Edited by DIONYSIUS LARDNER, D.C.L., formerly Professor of Natural Philosophy and Astronomy in University College, London. With upwards of 1200 Engravings on Wood. In 6 Double Volumes. Price £1 1*s.*, in a new and elegant cloth binding, or handsomely bound in half morocco, 31*s.* 6*d.*

OPINIONS OF THE PRESS.

"This series, besides affording popular but sound instruction on scientific subjects, with which the humblest man in the country ought to be acquainted, also undertakes that teaching of 'common things' which every well-wisher of his kind is anxious to promote. Many thousand copies of this serviceable publication have been printed, in the belief and hope that the desire for instruction and improvement widely prevails; and we have no fear that such enlightened faith will meet with disappointment."—*Times.*

"A cheap and interesting publication, alike informing and attractive. The papers combine subjects of importance and great scientific knowledge, considerable inductive powers, and a popular style of treatment."—*Spectator.*

"The 'Museum of Science and Art' is the most valuable contribution that has ever been made to the Scientific Instruction of every class of society."—*Sir David Brewster in the North British Review.*

"Whether we consider the liberality and beauty of the illustrations, the charm of the writing, or the durable interest of the matter, we must express our belief that there is hardly to be found among the new books, one that would be welcomed by people of so many ages and classes as a valuable present."—*Examiner.*

*** *Separate books formed from the above, suitable for Workmen's Libraries, Science Classes, &c.*

COMMON THINGS EXPLAINED. Containing Air, Earth, Fire, Water, Time, Man, the Eye, Locomotion, Colour, Clocks and Watches, &c. 233 Illustrations, cloth gilt, 5*s.*

THE MICROSCOPE. Containing Optical Images, Magnifying Glasses, Origin and Description of the Microscope, Microscopic Objects, the Solar Microscope, Microscopic Drawing and Engraving, &c. 147 Illustrations, cloth gilt, 2*s.*

POPULAR GEOLOGY. Containing Earthquakes and Volcanoes, the Crust of the Earth, etc. 201 Illustrations, cloth gilt, 2*s.* 6*d.*

POPULAR PHYSICS. Containing Magnitude and Minuteness, the Atmosphere, Meteoric Stones, Popular Fallacies, Weather Prognostics, the Thermometer, the Barometer, Sound, &c. 85 Illustrations, cloth gilt, 2*s.* 6*d.*

STEAM AND ITS USES. Including the Steam Engine, the Locomotive, and Steam Navigation. 89 Illustrations, cloth gilt, 2*s.*

POPULAR ASTRONOMY. Containing How to Observe the Heavens. The Earth, Sun, Moon, Planets. Light, Comets, Eclipses, Astronomical Influences, &c. 182 Illustrations, 4*s.* 6*d.*

THE BEE AND WHITE ANTS: Their Manners and Habits. With Illustrations of Animal Instinct and Intelligence. 135 Illustrations, cloth gilt, 2*s.*

THE ELECTRIC TELEGRAPH POPULARISED. To render intelligible to all who can Read, irrespective of any previous Scientific Acquirements, the various forms of Telegraphy in Actual Operation. 100 Illustrations, cloth gilt, 1*s.* 6*d.*

Digitized by Google

Dr. Lardner's Handbooks of Natural Philosophy.

**** The following five volumes, though each is Complete in itself, and to be purchased separately, form* A COMPLETE COURSE OF NATURAL PHILOSOPHY, *and are intended for the general reader who desires to attain accurate knowledge of the various departments of Physical Science, without pursuing them according to the more profound methods of mathematical investigation. The style is studiously popular. It has been the author's aim to supply Manuals such as are required by the Student, the Engineer, the Artisan, and the superior classes in Schools.*

THE HANDBOOK OF MECHANICS. Enlarged and almost rewritten by BENJAMIN LOEWY, F.R.A.S. With 378 Illustrations. Post 8vo, 6*s*. cloth.

"The perspicuity of the original has been retained, and chapters which had become obsolete, have been replaced by others of more modern character. The explanations throughout are studiously popular, and care has been taken to show the application of the various branches of physics to the industrial arts, and to the practical business of life."—*Mining Journal.*

THE HANDBOOK of HYDROSTATICS and PNEUMATICS. New Edition, Revised and Enlarged by BENJAMIN LOEWY, F.R.A.S. With 236 Illustrations. Post 8vo, 5*s*. cloth.

"For those 'who desire to attain an accurate knowledge of physical science without the profound methods of mathematical investigation,' this work is not merely intended, but well adapted."—*Chemical News.*

THE HANDBOOK OF HEAT. Edited and almost entirely Rewritten by BENJAMIN LOEWY, F.R.A.S., etc. 117 Illustrations. Post 8vo, 6*s*. cloth.

"The style is always clear and precise, and conveys instruction without leaving any cloudiness or lurking doubts behind."—*Engineering.*

THE HANDBOOK OF OPTICS. New Edition. Edited by T. OLVER HARDING, B.A. 298 Illustrations. Post 8vo, 5*s*. cloth.

"Written by one of the ablest English scientific writers, beautifully and elaborately illustrated."—*Mechanics' Magazine.*

THE HANDBOOK OF ELECTRICITY, MAGNETISM, and ACOUSTICS. New Edition. Edited by GEO. CAREY FOSTER, B.A., F.C.S. With 400 Illustrations. Post 8vo, 5*s*. cloth.

"The book could not have been entrusted to any one better calculated to preserve the terse and lucid style of Lardner, while correcting his errors and bringing up his work to the present state of scientific knowledge."—*Popular Science Review.*

Dr. Lardner's Handbook of Astronomy.

THE HANDBOOK OF ASTRONOMY. Forming a Companion to the "Handbooks of Natural Philosophy." By DIONYSIUS LARDNER, D.C.L. Fourth Edition. Revised and Edited by EDWIN DUNKIN, F.R.S., Royal Observatory, Greenwich. With 38 Plates and upwards of 100 Woodcuts. In 1 vol., small 8vo, 550 pages, 9*s*. 6*d*., cloth.

"Probably no other book contains the same amount of information in so compendious and well-arranged a form—certainly none at the price at which this is offered to the public."—*Athenæum.*

"We can do no other than pronounce this work a most valuable manual of astronomy, and we strongly recommend it to all who wish to acquire a general—but at the same time correct—acquaintance with this sublime science."—*Quarterly Journal of Science.*

Dr. Lardner's Handbook of Animal Physics.

THE HANDBOOK OF ANIMAL PHYSICS. By DR. LARDNER. With 520 Illustrations. New edition, small 8vo, cloth, 732 pages, 7*s*. 6*d*.

"We have no hesitation in cordially recommending it."—*Educational Times.*

Digitized by Google

Dr. Lardner's School Handbooks.

NATURAL PHILOSOPHY FOR SCHOOLS. By DR. LARDNER. 328 Illustrations. Sixth Edition. 1 vol. 3*s.* 6*d.* cloth.

"Conveys, in clear and precise terms, general notions of all the principal divisions of Physical Science."—*British Quarterly Review.*

ANIMAL PHYSIOLOGY FOR SCHOOLS. By DR. LARDNER. With 190 Illustrations. Second Edition. 1 vol. 3*s.* 6*d.* cloth.

"Clearly written, well arranged, and excellently illustrated."—*Gardeners' Chronicle.*

Dr. Lardner's Electric Telegraph.

THE ELECTRIC TELEGRAPH. By DR. LARDNER. New Edition. Revised and Re-written, by E. B. BRIGHT, F.R.A.S. 140 Illustrations. Small 8vo, 2*s.* 6*d.* cloth.

"One of the most readable books extant on the Electric Telegraph."—*Eng. Mechanic.*

Mollusca.

A MANUAL OF THE MOLLUSCA; being a Treatise on Recent and Fossil Shells. By Dr. S. P. WOODWARD, A.L.S. With Appendix by RALPH TATE, A.L.S., F.G.S. With numerous Plates and 300 Woodcuts. 3rd Edition. Cr. 8vo, 7*s.* 6*d.* cloth.

Geology and Genesis.

THE TWIN RECORDS OF CREATION; or, Geology and Genesis, their Perfect Harmony and Wonderful Concord. By GEORGE W. VICTOR LE VAUX. Fcap. 8vo, 5*s.* cloth.

"A valuable contribution to the evidences of revelation, and disposes very conclusively of the arguments of those who would set God's Works against God's Word. No real difficulty is shirked, and no sophistry is left unexposed."—*The Rock.*

Science and Scripture.

SCIENCE ELUCIDATIVE OF SCRIPTURE, AND NOT ANTAGONISTIC TO IT. By Prof. J. R. YOUNG. 5*s.* cloth.

Geology.

A CLASS-BOOK OF GEOLOGY: Consisting of "Physical Geology," which sets forth the Leading Principles of the Science; and "Historical Geology," which treats of the Mineral and Organic Conditions of the Earth at each successive epoch, especial reference being made to the British Series of Rocks. By RALPH TATE. With more than 250 Illustrations. Fcap. 8vo, 5*s.* cloth.

Practical Philosophy.

A SYNOPSIS OF PRACTICAL PHILOSOPHY. By Rev. JOHN CARR, M.A., late Fellow of Trin. Coll., Camb. 18mo, 5*s.* cl.

Pictures and Painters.

THE PICTURE AMATEUR'S HANDBOOK AND DICTIONARY OF PAINTERS: A Guide for Visitors to Picture Galleries, and for Art-Students, including methods of Painting, Cleaning, Re-Lining, and Restoring, the Principal Schools of Painting. With Notes on Copyists and Imitators of each Master. By PHILIPPE DARYL, B.A. Cr. 8vo, 3*s.* cloth.

"A really admirable dictionary of painters, which we cordially recommend."—*Builder.*

"A guide to the authorship, quality, and value of a picture, and furnishes the fundamental knowledge necessary to amateurs."—*Saturday Review.*

Digitized by Google

Clocks, Watches, and Bells.

RUDIMENTARY TREATISE on CLOCKS, and WATCHES, and BELLS. By Sir EDMUND BECKETT, Bart., LL.D., Q.C., F.R.A.S. Seventh Edition, revised and enlarged. Limp cloth (No. 67, Weale's Series), 4*s.* 6*d.*; cl. bds. 5*s.* 6*d.* [*Just published.*

"The best work on the subject extant. The treatise on bells is undoubtedly the best in the language."—*Engineering.*

"The only modern treatise on clock-making."—*Horological Journal.*

The Construction of the Organ.

PRACTICAL ORGAN-BUILDING. By W. E. DICKSON, M.A., Precentor of Ely Cathedral. Second Edition, revised, with Additions. 12mo, 3*s.* cloth boards.

"In many respects the book is the best that has yet appeared on the subject. We cordially recommend it."—*English Mechanic.*

"The amateur builder will find in this book all that is necessary to enable him personally to construct a perfect organ with his own hands."—*Academy.*

Brewing.

A HANDBOOK FOR YOUNG BREWERS. By HERBERT EDWARDS WRIGHT, B.A. Crown 8vo, 3*s.* 6*d.* cloth.

"A thoroughly scientific treatise in popular language."—*Morning Advertiser.*

"We would particularly recommend teachers of the art to place it in every pupil's hands, and we feel sure its perusal will be attended with advantage."—*Brewer.*

Dye-Wares and Colours.

THE MANUAL of COLOURS and DYE-WARES: their Properties, Applications, Valuation, Impurities, and Sophistications. For the Use of Dyers, Printers, Drysalters, Brokers, &c. By J. W. SLATER. Second Edition. Re-written and Enlarged. Crown 8vo, 7*s.* 6*d.* cloth.

Grammar of Colouring.

A GRAMMAR OF COLOURING, applied to Decorative Painting and the Arts. By GEORGE FIELD. New edition. By ELLIS A. DAVIDSON. 12mo, 3*s.* 6*d.* cloth.

Woods and Marbles (Imitation of).

SCHOOL OF PAINTING FOR THE IMITATION OF WOODS AND MARBLES, as Taught and Practised by A. R. and P. VAN DER BURG. With 24 full-size Coloured Plates; also 12 Plain Plates, comprising 154 Figures. Folio, 2*l.* 12*s.* 6*d.* bound.

The Military Sciences.

AIDE-MÉMOIRE to the MILITARY SCIENCES. Framed from Contributions of Officers and others connected with the different Services. Originally edited by a Committee of the Corps of Royal Engineers. 2nd Edition, revised; nearly 350 Engravings and many hundred Woodcuts. 3 vols. royal 8vo, cloth, 4*l.* 10*s.*

Field Fortification.

A TREATISE on FIELD FORTIFICATION, the ATTACK of FORTRESSES, MILITARY MINING, and RECONNOITRING. By Colonel I. S. MACAULAY, late Professor of Fortification in the R. M. A., Woolwich. Sixth Edition, crown 8vo, cloth, with separate Atlas of 12 Plates, 12*s.* complete.

Digitized by Google

Delamotte's Works on Illumination & Alphabets.

A PRIMER OF THE ART OF ILLUMINATION; for the use of Beginners: with a Rudimentary Treatise on the Art, Practical Directions for its Exercise, and numerous Examples taken from Illuminated MSS., printed in Gold and Colours. By F. DELAMOTTE. Small 4to, 9*s*. Elegantly bound, cloth antique.

"The examples of ancient MSS. recommended to the student, which, with much good sense, the author chooses from collections accessible to all, are selected with judgment and knowledge, as well as taste."—*Athenæum.*

ORNAMENTAL ALPHABETS, ANCIENT and MEDIÆVAL; from the Eighth Century, with Numerals; including Gothic, Church-Text, German, Italian, Arabesque, Initials, Monograms, Crosses, &c. Collected and engraved by F. DELAMOTTE, and printed in Colours. Tenth and Cheaper Edition. Royal 8vo, oblong, 2*s*. 6*d*. ornamental boards.

"For those who insert enamelled sentences round gilded chalices, who blazon shop legends over shop-doors, who letter church walls with pithy sentences from the Decalogue, this book will be useful."—*Athenæum.*

EXAMPLES OF MODERN ALPHABETS, PLAIN and ORNAMENTAL; including German, Old English, Saxon, Italic, Perspective, Greek, Hebrew, Court Hand, Engrossing, Tuscan, Riband, Gothic, Rustic, and Arabesque, &c., &c. Collected and engraved by F. DELAMOTTE, and printed in Colours. Eighth and Cheaper Edition. Royal 8vo, oblong, 2*s*. 6*d*. ornamental boards.

"There is comprised in it every possible shape into which the letters of the alphabet and numerals can be formed."—*Standard.*

MEDIÆVAL ALPHABETS AND INITIALS FOR ILLUMINATORS. By F. DELAMOTTE. Containing 21 Plates, and Illuminated Title, printed in Gold and Colours. With an Introduction by J. WILLIS BROOKS. Small 4to, 6*s*. cloth gilt.

THE EMBROIDERER'S BOOK OF DESIGN; containing Initials, Emblems, Cyphers, Monograms, Ornamental Borders, Ecclesiastical Devices, Mediæval and Modern Alphabets, and National Emblems. Collected and engraved by F. DELAMOTTE, and printed in Colours. Oblong royal 8vo, 1*s*. 6*d*. ornamental wrapper.

Wood-Carving.

INSTRUCTIONS in WOOD-CARVING, for Amateurs; with Hints on Design. By A LADY. In emblematic wrapper, handsomely printed, with Ten large Plates, 2*s*. 6*d*.

"The handicraft of the wood-carver, so well as a book can impart it, may be learnt from 'A Lady's' publication."—*Athenæum.*

Popular Work on Painting.

PAINTING POPULARLY EXPLAINED; with Historical Sketches of the Progress of the Art. By THOMAS JOHN GULLICK, Painter, and JOHN TIMBS, F.S.A. Fourth Edition, revised and enlarged. With Frontispiece and Vignette. In small 8vo, 5*s*. 6*d*. cloth.

*** *This Work has been adopted as a Prize-book in the Schools of Art at South Kensington.*

"Contains a large amount of original matter, agreeably conveyed."—*Builder.*

"Much may be learned, even by those who fancy they do not require to be taught, from the careful perusal of this unpretending but comprehensive treatise."—*Art Journal.*

Digitized by Google

AGRICULTURE, GARDENING, ETC.

Youatt and Burn's Complete Grazier.

THE COMPLETE GRAZIER, and FARMER'S and CATTLE-BREEDER'S ASSISTANT. A Compendium of Husbandry. By WILLIAM YOUATT, ESQ., V.S. 12th Edition, very considerably enlarged, and brought up to the present requirements of agricultural practice. By ROBERT SCOTT BURN. One large 8vo. volume, 860 pp. with 244 Illustrations. 1*l.* 1*s.* half-bound.

"The standard and text-book, with the farmer and grazier."—*Farmer's Magazine.*

"A treatise which will remain a standard work on the subject as long as British agriculture endures."—*Mark Lane Express.*

History, Structure, and Diseases of Sheep.

SHEEP; THE HISTORY, STRUCTURE, ECONOMY, AND DISEASES OF. By W. C. SPOONER, M.R.V.C., &c. Fourth Edition, with fine engravings, including specimens of New and Improved Breeds. 366 pp., 4*s.* cloth.

Production of Meat.

MEAT PRODUCTION. A Manual for Producers, Distributors, and Consumers of Butchers' Meat. Being a treatise on means of increasing its Home Production. Also treating of the Breeding, Rearing, Fattening, and Slaughtering of Meat-yielding Live Stock; Indications of the Quality, etc. By JOHN EWART. Cr. 8vo, 5*s.* cloth.

"A compact and handy volume on the meat question, which deserves serious and thoughtful consideration at the present time."—*Meat and Provision Trades' Review.*

Donaldson and Burn's Suburban Farming.

SUBURBAN FARMING. A Treatise on the Laying Out and Cultivation of Farms adapted to the produce of Milk, Butter and Cheese, Eggs, Poultry, and Pigs. By the late Professor JOHN DONALDSON. With Additions, Illustrating the more Modern Practice, by R. SCOTT BURN. 12mo, 4*s.* cloth boards.

English Agriculture.

A TEXT-BOOK OF AGRICULTURE (THE FIELDS OF GREAT BRITAIN), adapted to the Syllabus of the Science and Art Department. For Elementary and Advanced Students. By HUGH CLEMENTS (Board of Trade). With an Introduction by H. KAINS-JACKSON. 18mo, 2*s.* 6*d.* cloth.

"A clearly written description of the ordinary routine of English farm-life."—*Land.*

"A carefully written text-book of Agriculture."—*Athenæum.* [*Economist.*

"A most comprehensive volume, giving a mass of information."—*Agricultural*

Modern Farming.

OUTLINES OF MODERN FARMING. By R. SCOTT BURN. Soils, Manures, and Crops—Farming and Farming Economy—Cattle, Sheep, and Horses—Management of the Dairy, Pigs, and Poultry—Utilisation of Town Sewage, Irrigation, &c. Fifth Edition. In 1 vol. 1250 pp., half-bound, profusely illustrated, 12*s.*

"There is sufficient stated within the limits of this treatise to prevent a farmer from going far wrong in any of his operations."—*Observer.*

Digitized by Google

The Management of Estates.

LANDED ESTATES MANAGEMENT: Treating of the Varieties of Lands, Methods of Farming, Farm Building, Irrigation, Drainage, &c. By R. SCOTT BURN. 12mo, 3*s.* cloth.

"A complete and comprehensive outline of the duties appertaining to the management of landed estates."—*Journal of Forestry.*

The Management of Farms.

OUTLINES OF FARM MANAGEMENT, and the Organization of Farm Labour. Treating of the General Work of the Farm, Field, and Live Stock, Details of Contract Work, Specialties of Labour, Economical Management of the Farmhouse and Cottage, Domestic Animals, &c. By ROBERT SCOTT BURN. 12mo, 3*s.*

Management of Estates and Farms.

LANDED ESTATES AND FARM MANAGEMENT. By R. SCOTT BURN. (The above Two Works in One Vol.) 6*s.*

Hudson's Tables for Land Valuers.

THE LAND VALUER'S BEST ASSISTANT: being Tables, on a very much improved Plan, for Calculating the Value of Estates. With Tables for reducing Scotch, Irish, and Provincial Customary Acres to Statute Measure, &c. By R. HUDSON, C.E. New Edition, royal 32mo, leather, gilt edges, elastic band, 4*s.*

Ewart's Land Improver's Pocket-Book.

THE LAND IMPROVER'S POCKET-BOOK OF FORMULÆ, TABLES, and MEMORANDA, required in any Computation relating to the Permanent Improvement of Landed Property. By JOHN EWART, Land Surveyor. 32mo, leather, 4*s.*

Complete Agricultural Surveyor's Pocket-Book.

THE LAND VALUER'S AND LAND IMPROVER'S COMPLETE POCKET-BOOK; consisting of the above two works bound together, leather, gilt edges, with strap, 7*s.* 6*d.*

"We consider Hudson's book to be the best ready-reckoner on matters relating to the valuation of land and crops we have ever seen, and its combination with Mr. Ewart's work greatly enhances the value and usefulness of the latter-mentioned.—It is most useful as a manual for reference."—*North of England Farmer.*

Grafting and Budding.

THE ART OF GRAFTING AND BUDDING. By CHARLES BALTET. Translated from the French. With upwards of 180 Illustrations. 12mo, 3*s.* cloth boards.

Culture of Fruit Trees.

FRUIT TREES, the Scientific and Profitable Culture of. Including Choice of Trees, Planting, Grafting, Training, Restoration of Unfruitful Trees, &c. From the French of DU BREUIL. Fourth Edition, revised. With an Introduction by GEORGE GLENNY. 4*s.* cl.

"The book teaches how to prune and train fruit-trees to perfection."—*Field.*

Potato Culture.

POTATOES, HOW TO GROW AND SHOW THEM: A Practical Guide to the Cultivation and General Treatment of the Potato. By JAMES PINK. With Illustrations. Cr. 8vo, 2*s.* cl.

Digitized by Google

Good Gardening.

A PLAIN GUIDE TO GOOD GARDENING; or, How to Grow Vegetables, Fruits, and Flowers. With Practical Notes on Soils, Manures, Seeds, Planting, Laying-out of Gardens and Grounds, &c. By S. WOOD. Third Edition. Cr. 8vo, 5*s*. cloth.

"A very good book, and one to be highly recommended as a practical guide. The practical directions are excellent."—*Athenæum.*

Gainful Gardening.

MULTUM-IN-PARVO GARDENING; or, How to make One Acre of Land produce £620 a year, by the Cultivation of Fruits and Vegetables; also, How to Grow Flowers in Three Glass Houses, so as to realise £176 per annum clear Profit. By SAMUEL WOOD. 3rd Edition, revised. Cr. 8vo, 2*s*. cloth.

"We are bound to recommend it as not only suited to the case of the amateur and gentleman's gardener, but to the market grower."—*Gardener's Magazine.*

Gardening for Ladies.

THE LADIES' MULTUM-IN-PARVO FLOWER GARDEN, and Amateur's Complete Guide. By S. WOOD. Cr. 8vo, 3*s*. 6*d*.

Bulb Culture.

THE BULB GARDEN, or, How to Cultivate Bulbous and Tuberous-rooted Flowering Plants to Perfection. By SAMUEL WOOD. Coloured Plates. Crown 8vo, 3*s*. 6*d*. cloth.

Tree Planting.

THE TREE PLANTER AND PLANT PROPAGATOR: A Practical Manual on the Propagation of Forest Trees, Fruit Trees, Flowering Shrubs, Flowering Plants, Pot Herbs, &c. Numerous Illustrations. By SAMUEL WOOD. 12mo, 2*s*. 6*d*. cloth.

Tree Pruning.

THE TREE PRUNER: A Practical Manual on the Pruning of Fruit Trees, their Training and Renovation; also the Pruning of Shrubs, Climbers, &c. By S. WOOD. 12mo, 2*s*. 6*d*. cloth.

Tree Planting, Pruning, & Plant Propagation.

THE TREE PLANTER, PROPAGATOR, AND PRUNER. By SAMUEL WOOD, Author of "Good Gardening," &c. Consisting of the above Two Works in One Vol., 5*s*. half-bound.

Early Fruits, Flowers and Vegetables.

THE FORCING GARDEN: or, How to Grow Early Fruits, Flowers, and Vegetables. With Plans and Estimates for Building Glasshouses, Pits, Frames, &c. By S. WOOD. Crown 8vo, 3*s*. 6*d*.

Market Gardening, Etc.

THE KITCHEN AND MARKET GARDEN. By Contributors to "The Garden." Compiled by C. W. SHAW, Editor of "Gardening Illustrated." 12mo, 3*s*. 6*d*. cl. bds. [*Just published.*

Kitchen Gardening.

KITCHEN GARDENING MADE EASY. Showing how to prepare and lay out the ground, the best means of cultivating every known Vegetable and Herb, etc. By G. M. F. GLENNY. 12mo, 2*s*.

Digitized by Google

'A Complete Epitome of the Laws of this Country.'

EVERY MAN'S OWN LAWYER; a Handy-Book of the Principles of Law and Equity. By A BARRISTER. New Edition. Corrected to the end of last Session. Embracing upwards of 3,500 Statements on Points of Law, Verified by the addition of Notes and References to the Authorities. Crown 8vo, cloth, price 6*s.* 8*d.* (saved at every consultation).

COMPRISING THE RIGHTS AND WRONGS OF INDIVIDUALS, MERCANTILE AND COMMERCIAL LAW, CRIMINAL LAW, PARISH LAW, COUNTY COURT LAW, GAME AND FISHERY LAWS, POOR MEN'S LAW, THE LAWS OF BANKRUPTCY—BILLS OF EXCHANGE—CONTRACTS AND AGREEMENTS—COPYRIGHT—DOWER AND DIVORCE—ELECTIONS AND REGISTRATION—INSURANCE—LIBEL AND SLANDER—MORTGAGES—SETTLEMENTS—STOCK EXCHANGE PRACTICE—TRADE MARKS AND PATENTS—TRESPASS, NUISANCES, ETC.—TRANSFER OF LAND, ETC.—WARRANTY—WILLS AND AGREEMENTS, ETC.

Also Law for Landlord and Tenant—Master and Servant—Workmen and Apprentices—Heirs, Devisees, and Legatees—Husband and Wife—Executors and Trustees—Guardian and Ward—Married Women and Infants—Partners and Agents—Lender and Borrower—Debtor and Creditor—Purchaser and Vendor—Companies and Associations—Friendly Societies—Clergymen, Churchwardens—Medical Practitioners, &c.—Bankers—Farmers—Contractors—Stock and Share Brokers—Sportsmen and Gamekeepers—Farriers and Horse-Dealers—Auctioneers, House-Agents—Innkeepers, &c.—Pawnbrokers—Surveyors—Railways and Carriers, &c., &c.

"No Englishman ought to be without this book."—*Engineer.*

"What it professes to be—a complete epitome of the laws of this country, thoroughly intelligible to non-professional readers. The book is a handy one to have in readiness when some knotty point requires ready solution."—*Bell's Life.*

"A useful and concise epitome of the law."—*Law Magazine.*

Auctioneer's Assistant.

THE APPRAISER, AUCTIONEER, BROKER, HOUSE AND ESTATE AGENT, AND VALUER'S POCKET ASSISTANT, for the Valuation for Purchase, Sale, or Renewal of Leases, Annuities, and Reversions, and of property generally; with Prices for Inventories, &c. By JOHN WHEELER, Valuer, &c. Fourth Edition, enlarged, by C. NORRIS. Royal 32mo, cloth, 5*s.*

"A concise book of reference, containing a clearly-arranged list of prices for inventories, a practical guide to determine the value of furniture, &c."—*Standard.*

Auctioneering.

AUCTIONEERS: THEIR DUTIES AND LIABILITIES. By ROBERT SQUIBBS, Auctioneer. Demy 8vo, 10*s.* 6*d.* cloth.

"Every auctioneer and valuer ought to possess a copy of this valuable work."—[*Ironmonger*

House Property.

HANDBOOK OF HOUSE PROPERTY: a Popular and Practical Guide to the Purchase, Mortgage, Tenancy, and Compulsory Sale of Houses and Land; including the Law of Dilapidations and Fixtures, &c. By E. L. TARBUCK. 3rd Edit. 12mo, 3*s.* 6*d.* cloth.

'We are glad to be able to recommend it."—*Builder.* [*Just published.*

"The advice is thoroughly practical."—*Law Journal.*

Metropolitan Rating.

METROPOLITAN RATING: a Summary of the Appeals heard before the Court of General Assessment Sessions at Westminster, in the years 1871–80 inclusive. Containing a large mass of very valuable information with respect to the Rating of Railways, Gas and Waterworks, Tramways, Wharves, Public Houses, &c. By EDWARD and A. L. RYDE. 8vo, 12*s.* 6*d.*

Bradbury, Agnew, & Co., Printers, Whitefriars, London.

Digitized by Google

Digitized by Google

AGRICULTURE, GARDENING, &c.

DRAINING AND EMBANKING. A Practical Treatise embodying the most recent experience in the Application of Improved Methods. By JOHN SCOTT, late Professor of Agriculture and Rural Economy at the Royal Agricultural College, Cirencester. With 68 Illustrations. 1s. 6d.

IRRIGATION AND WATER SUPPLY. A Treatise on Water Meadows, Sewage Irrigation, Warping, &c.; on the Construction of Wells, Ponds, and Reservoirs; and on Raising Water by Machinery for Agricultural and Domestic Purposes. By Professor JOHN SCOTT. With 34 Illustrations. 1s. 6d.

*** *The above form part of* SCOTT'S FARM ENGINEERING TEXT BOOKS. *The following volumes, completing the series, are in active preparation:*

FARM ROADS, FENCES, AND GATES.
AGRICULTURAL SURVEYING, LEVELLING, &c.
FARM BUILDINGS.
FIELD IMPLEMENTS AND MACHINES.
BARN IMPLEMENTS AND MACHINES.

SOILS, MANURES, AND CROPS. By R. SCOTT BURN. Woodcuts. 2s.

FARMING AND FARMING ECONOMY; Notes, Historical and Practical, on. By R. SCOTT BURN. Woodcuts. 3s.

STOCK; CATTLE, SHEEP, AND HORSES. By R. SCOTT BURN. 2s. 6d.

DAIRY, PIGS, AND POULTRY. By R. SCOTT BURN. With Notes on the Diseases of Stock. Woodcuts. 2s.

UTILIZATION OF SEWAGE, IRRIGATION, AND RECLAMATION OF WASTE LAND. By R. SCOTT BURN. Woodcuts. 2s. 6d.

The above five works in one volume, handsomely half-bound, entitled "OUTLINES OF MODERN FARMING." *Price* 12*s.*

LANDED ESTATES MANAGEMENT. By R. SCOTT BURN. 2s. 6d.; cloth boards, 3s.

FARM MANAGEMENT AND THE ORGANIZATION OF FARM LABOUR. By R. SCOTT BURN. 2s. 6d.

The above two volumes, bound together, 6*s.*

SHEEP; THE HISTORY, STRUCTURE, ECONOMY, AND DISEASES OF. By W. C. SPOONER, M.R.V.C., &c. Fourth Edition, enlarged. 3s. 6d.; cloth boards, 4s.

SUBURBAN FARMING. By the late Professor DONALDSON. Edited by R. SCOTT BURN. 3s. 6d.; cloth boards, 4s.

THE HAY AND STRAW MEASURER: being New Tables for the Use of Auctioneers, Valuers, Farmers, Hay and Straw Dealers, &c. By JOHN STEELE. Fourth Edition. 2s.